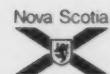


A
*Detailed
Report
of*

Educational
Software
valuations



Department of
Education

*A
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of*

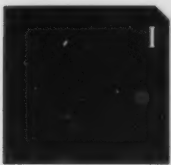
Educational
Software
Evaluations

Nova Scotia
Department of Education

Halifax, August 1992



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INTRODUCTION

This is the sixth *Detailed Software Evaluation Report* produced by the Nova Scotia Department of Education. We acknowledge with thanks the contribution of teachers throughout Nova Scotia who have participated in the evaluation process.

Through a process of screening and detailed evaluations, using a set of evaluation criteria agreed upon by the provincial Departments of Education across Canada, a list of approved software is created. This "listed" software may be acquired by schools in Nova Scotia through the Nova Scotia School Book Bureau using textbook allocation funds.

Ordering Software

An order form, produced by the School Book Bureau, and distributed to school principals through district school board offices, may be used to acquire "listed" software. Please note that titles are listed in alphabetical order on the order form.

District Purchase Plans and Site Licenses

Some software is available as a site license. This means that a school purchases the right to duplicate software for use on the computers within a school building or the district. Available site licenses are noted on the order form. A district which is considering purchasing a number of copies from a particular publisher should investigate District Purchase Plans which may be arranged with the supplier directly and may be cheaper.

Using the Recommendations

In addition to software which is "listed" on the *Authorized List of Learning Materials*, this report includes evaluations of software which is recommended, recommended with reservations, rejected or no longer listed. The evaluation results in this report represent the

information available at the time the report was written. Software may be rejected for a variety of reasons, including: too difficult to use, does not run properly, the content does not fit the Nova Scotia curriculum, or the methodology is not acceptable as good teaching practice. Individual teachers may agree or disagree with the reported results.

The intent of the report is to identify software that might be considered for use in Nova Scotia schools and to provide a means for obtaining that software. To date, we believe this effort has been quite successful. However please inform us of problems you encounter or modifications you feel would be useful.

Schools may apply to the Department of Education through the district board to purchase software which is not on the *List of Authorized Instructional Materials*. Up to 10% of the credit allocation may be used for such purchases. Products which are recommended in the enclosed report will generally be accepted. Products which are rejected will generally be rejected on 10% applications.

Teachers should carefully consider any restrictions or special equipment requirements noted in these evaluations. Additional information is available by contacting the Microcomputer Demonstration Centre, Education Media Services, 3770 Kempt Road, Halifax, NS, B3K 4XB (902) 424-2450. Teachers are encouraged to visit the Demonstration Centre to preview software prior to purchase.

Bob Haines, Executive Director
Program Branch
Nova Scotia Department of Education
August 1992

■ Evaluation Levels

New List

Refers to titles which have been added to the Authorized List of Learning Materials since order forms were distributed in January 1992 and are available from the School Book Bureau.

Listed

Refers to titles from the Authorized List which were identified in previous reports and are available through the School Book Bureau.

Recommend

Refers to titles which have been favorably reviewed by several classroom teachers based on use with students.

Recom Rsv

Refers to titles which have been reviewed by classroom teachers but recommended with reservations due to curriculum fit, unusual equipment requirements, instructional format or limitations of information presented.

In Progress

Accept 1st Program has been reviewed by a curriculum consultant and recommended for further evaluation.

At Indepth Program is currently being field tested in classrooms.

Rejected

Reject 1st Program has been rejected during first level review by a curriculum consultant. Programs are rejected which do not run correctly, require unusual adaptations, contain errors or biases or are too limited in scope or instructional format. Programs are rejected if instructional format is inconsistent with principles of learning.

Reject Dpt Program has been rejected as a result of negative reviews by several classroom teachers.

■ Software Formats

Ile generally will run successfully on Apple Ile, IIC and IIGs or a Macintosh LC with Apple Ile card and Ile disk drives.

IIGs requires the capability of a IIGs and will generally not run on a IIC or Ile or a Macintosh LC.

PCDOS software requires IBM-BIOS and may not run successfully on compatible computers.

MSDOS software has been tested successfully on a variety of IBM and IBM-compatible computers.

T1000 software is designed specifically for Tandy DOS and Tandy 1000.

C64 generally will run successfully on C64 or C128 (in C64 mode).

C128 will run on a Commodore 128 (in C128 mode).

Mac software is designed specifically for Macintosh computers.

Amiga software is designed specifically for Amiga computers.

Laser Disk program requires a laser video disk players but does not require a computer.

CD-MAC program requires a CD-ROM player in conjunction with Macintosh microcomputer.

CD-MSDOS program requires a CD-ROM player in conjunction with an IBM or IBM-compatible microcomputer.

****** Any of the above formats followed by 3 or 5 represents the disk size (3.5" or 5.25") available in the Training and Demonstration Centre.

■ Grade Levels

E Elementary P-3
I Intermediate 4-6
J Junior 7-9
S Senior High 9-12
CC Community College
T Teachers

■ Curriculum Codes

BE Business Education
HL Health
SC Science
CE Career Education
IT Industrial Arts Technology
MU Music
SE Special Education
CS Computer Science
NU Nutrition
SL Second Language
EC Early Childhood
LA Language Arts
PE Physical Education
SS Social Studies
FS Family Studies
MA Mathematics
PS Problem Solving
UT Utility

SECTION ONE

APPROVED SOFTWARE LIST



■ 816/Paint

Supplier: Baudville

Formats: IIGs

Demo: IIGs

Evaluation Level: LISTED

Curriculum Codes: IT

Grade levels: J

This program is a paint program which offers more options with twice as many colors as *Blazing Paddles*. This program can introduce students to sketching using a computer, which is an essential introduction to drafting and, therefore, computer-aided drafting. It will also have applications in computer graphics and can be used to produce clip art for desktop publishing. In contrast to previous Apple II programs, it works with all Apple high-resolution graphics modes. The program requires a mouse. A lab pack of 6 sets of disks and site licenses are available. This program is shipped with both 3.5" and 5.25" disks.

■ ACCPAC Bedford - Industry Standard

Supplier: Computer Associates

Formats: MAC MSDOS

Demo: MAC

Evaluation Level: LISTED

Curriculum Codes: BE

Grade levels: S

ACCPAC Bedford is an integrated package which includes accounts payable, accounts receivable, payroll inventory and a general ledger system. Some prior knowledge of accounting procedures would be useful before using *ACCPAC Bedford*. The package is appropriate for Accounting, level 12. The MSDOS format is available either in 3.5" or 5.25" disks.

■ Adventures with Charts & Graph - Project Zoo

Supplier: National Geographic Society ED Services

Formats: IIG

Demo: IIG

Evaluation Level: LISTED

Curriculum Codes: SC MA

Grade levels: E I

Project Zoo is a multimedia courseware adventure in mathematics and science for students in grades three through five. Built around a zoo theme, it develops skills in graphing, measurement, map making and research; deepens understanding of the characteristics and survival needs of animals; and improves proficiency in problem solving. Students begin as visitors to a zoo and end by designing zoos of their own.

This software could be used in classrooms as a theme study. It supports independent learning in a child-

centred classroom and promotes discussion, decision making, critical thinking and reinforcement of content. Also available in lab pack of three additional copies of each disk.

■ AppleWorks - 3.0

Supplier: Claris

Formats: IIG

Demo: IIG

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: J S T

An integrated word processor, spreadsheet, and database program for the Apple II microcomputers. It is menu driven, has help available and comes with a full tutorial. *AppleWorks 3.0* provides new features throughout all three modules, including a built-in spelling checker, enhanced formatting and printing options, multiple-column mailing labels, 26 new spreadsheet functions, and improved integration between modules. It has increased power without altering the program's basic look and feel. Five new control key formatting commands have been added to streamline common operations in the word processing module. An improved zoom feature (Open Apple-Z) now hides all formatting options when you "zoom out" allowing the user a more accurate picture of the final output. The database has the ability to scroll horizontally in the multiple-record display. * Please note - When ordering, it is necessary to specify EITHER 5.25" OR 3.5". Both formats are no longer included in the single or multiple packages. Program is available in complete package or in 10-packs with one set of manuals and 10 diskettes. A site license is also available.

■ Auto Sketch - 3.0

Supplier: Addison-Wesley Publishers Ltd.

Formats: MSDOS

Demo: MSDOS

Evaluation Level: NEW LIST

Curriculum Codes: UT IT

Grade levels: J

Auto Sketch is an object-oriented CAD program which has the advantage that it records objects such as circles with a particular center and radius and objects such as lines with particular end points. *Auto Sketch* uses mathematical definitions to produce images with considerable detail in contrast to most pixel-oriented software. Other features include: the capability of drawing with a mouse using convenient pull-down menu commands, automatic dimensioning and scaling, full pan and zoom capabilities, full undo and redo

features. VGA or EGA monitor needed for color display.

This is a user-friendly computer-aided-drafting software featuring pull down menus. The content is relevant to the junior high industrial arts technology program for introductory and exploratory drafting and design courses. Where laboratory time is limited at the junior high level, teachers may also find relevance for the program at the senior high level. Available in 3.5" or 5.25" disks. Drawings up to 200% larger than version 2.0 are possible. This is an entry level program similar to the structure of the industry standard *Auto CAD*. Version 3.0 requires 640K memory. A math co-processor is recommended.

■ **Bank Street Writer III**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile MSDOS

Demo: Ile MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: E I J S T

This is a greatly enhanced version of Bank Street Writer which includes statistical functions, a large print (20-column) and on a separate diskette, normal size (40-or 80-column) display modes. The program contains an integrated spelling checker. A minimum 128K is required for the Apple version.

This is a significant improvement to a very easy-to-use word processing program. It can import and export ASCII files which permits sharing data files with other word processing programs. The integrated spelling checker saves users from loading a separate program, although some of the data on word frequency and corrected words is not available in this integrated version. MSDOS lab pack is out of print. Available in 3.5" or 5.25" disks.

■ **Bedford Accounting, Student Edition**

Supplier: Addison-Wesley Publishers Ltd.

Formats: MSDOS

Demo: MSDOS

Evaluation Level: LISTED

Curriculum Codes: BE

Grade levels: S

Bedford Accounting is an accounting course within an integrated software package. Students perform the accounting procedures for each of five model companies. Each package involves the following procedures: accounts payable, accounts receivable, payroll inventory and a general ledger system. At the completion of the software, there is a project which

allows the student to create his/her own business and to do the various accounting procedures for it. The student version does not accept dates later than January 21, 1986, nor does it include a separate tutorial disk. The tutorial data files are contained on the student disk with the program's files. The student can transfer data to other programs such as word processing and spreadsheets. Although a fundamental understanding of the accounting principles would make the student a more efficient user, the conceptual accounting development can take place during program utilization. This program is also available in French.

A minimum purchase of ten units is required.

■ **Better Working Eight In One**

Supplier: Spinnaker Software Corp.

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: S T

This is an integrated package suitable for junior or senior high school. It consists of a word processor, database, desktop outliner, spell corrector, spreadsheet graphics, and communication.

The package requires a minimum of 256K and a graphics adapter in order to provide graphics output. The program operates easily from pull-down menus on the screen. A hard disk drive is recommended. The word processing section is similar to PFS Professional Write. This program is available in 3.5" and 5.25" disks or in a combination pack containing both size disks. Also available in 5-disk lab packs in all size combinations.

■ **Caddraw**

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: IT

Grade levels: J

The content is very relevant to the Nova Scotia industrial arts program. It conveys the standard drawing content used in our junior high drafting course as well as content related to our senior high architectural drafting and construction technology course.

Caddraw is designed for teaching the principles of CAD to beginning drafting and design students. With the program, students can create drawings in a variety of scales, including metric. The program includes the ability to center multiview or isometric drawings on any four title blocks and borders, create free-hand drawings,

rotate text, lines, or symbols 360 degrees, and other techniques of computer assisted drafting. *Caddraw* is recommended for CAD in junior high introductory drafting and design and architectural drafting and electricity/electronics.

■ *Car Builder*

Supplier: Hearlihy & Co.

Formats: IIe MSDOS

Demo: IIe

Evaluation Level: LISTED

Curriculum Codes: IT

Grade levels: J S

Car Builder is a scientific simulation program that lets you design, construct, modify and test your own cars. *Car Builder* allows students to design an automobile from the chassis up. A variety of optional choices are available for the engine, chassis, front and rear suspension, steering, tires and brakes. Provisions are available to customize the body design. Designs can be tested through a simulated wind tunnel and test track and can also be used as a basis for a model to be developed in a manufacturing technology situation. All formats are also available in lab packs.

■ *Catlab*

Supplier: Conduit

Formats: IIe MSDOS

Demo: IIe

Evaluation Level: LISTED

Curriculum Codes: SC

Grade levels: S

This Mendelian genetics simulation program allows students to experiment with various genetic models and to gain an understanding of genotypes, genetic ratios, and monogenic traits. It provides an opportunity for students to plan strategies for data collection, to understand hypothesis testing, and to record and organize data. Students make decisions about breeding cats with specific traits, and the program logic determines the characteristics of the offspring. This program is also available in a 6-disk education pack.

■ *Chemical Collisions*

Supplier: COMPRESS (Div. of Queue, Inc.)

Formats: IIe

Demo: IIe

Evaluation Level: NEW LIST

Curriculum Codes: SC

Grade levels: S

This program simulates a reaction system in which two species of molecules, A and B, are mixed together and

make random collisions.

Most effective use of this software would be as a whole class introduction to collision theory or as small group tutorial. This program is only available in 5.25" disks.

■ *CNC Lathe (Part I) - CNC Machining & Program.*

Supplier: Hearlihy & Co.

Formats: IIe MSDOS

Demo: IIe

Evaluation Level: LISTED

Curriculum Codes: IT

Grade levels: S

This piece of software contains 5 lessons. CNC Lathe Safety, CNC Lathe Setup, CNC Lathe Machining, CNC Lathe Vocabulary and CNC Lathe Maintenance.

Both motivational and user-friendly, *CNC Lathe (Part I)* provides an introduction to numerical control of machine lathe. Sound, lively animation and graphics are used extensively. Detailed procedures and principles of computerized numerical control are defined as well as the skills required for successful NC tool operation.

■ *CNC Lathe (Part II) - CNC Machining & Program.*

Supplier: Hearlihy & Co.

Formats: IIe MSDOS

Demo: IIe

Evaluation Level: LISTED

Curriculum Codes: IT

Grade levels: S

This is a continuation of CNC Lathe (Part I). The programs may be used individually or together as a complete unit. It teaches the five lessons: Computer Numerical Control Vocabulary, Simple CNC Lathe Operations, Tool Path Verification, NC Programming and Writing NC programs.

Continuation of *CNC Machining & Programming: CNC Lathe (Part I)*.

■ *Discrimination, Attributes & Rules*

Supplier: Sunburst Communications

Formats: IIe

Demo: IIe

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: E I

Discrimination, Attributes and Rules is a large collection of problem-solving programs designed to follow the series, *Memory the First Steps*. Titles include: *Teddy's Playground* (working with attributes), *Iggy's Gnees* (discovering secret rules), *Odd One Out* (classification), *Gnee or Not Gnee* (Guessing rules from examples), *Tip 'N Flip* (visual discrimination, mental

transposition), *High Wire Logic* (logic and attributes) and *Ten Clues* (using attributes as clues). Some of the titles may be purchased separately.

■ ***Discrimination, Attributes & Rules - Gnee or Not Gnee***

Supplier: Sunburst Communications

Formats: Ile MSDOS C64

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: PS MA

Grade levels: E I

Students are given a set of shapes which follow a secret rule (Gnees) and Not Gnees. They are then presented with a third set and must determine from the examples which set fits the rule. The Apple format is available in both 3.5" and 5.25" disks and an Appletalk Network version. All formats are available in single copies or a 10-disk lab pack. This package is available separately or is included within the package *Discrimination, Attributes and Rules*.

■ ***Discrimination, Attributes & Rules - High Wire Logic***

Supplier: Sunburst Communications

Formats: Ile MSDOS

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: MA PS

Grade levels: I

This program uses the Boolean logic to challenge students to learn about rules while developing their logic and discrimination skills. This package is available separately or is included within the package, *Discrimination, Attributes & Rules*.

The Apple format is available in both 3.5" and 5.25" disks as well as an Appletalk Network version. All formats are also available in 10-disk lab packs.

■ ***Discrimination, Attributes & Rules - Iggy's Gnees***

Supplier: Sunburst Communications

Formats: Ile C64

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: MA PS

Grade levels: E I

Iggy is an inchworm which students guide to arrange colorful shapes to fit a secret rule. The program aids in visual discrimination and concept formation skills. This package is available separately or is included within the package, *Discrimination, Attributes & Rules*.

The Apple format is available in both 3.5" and 5.25"

disks as well as an Appletalk Network version. All formats are also available in 10-disk lab packs.

■ ***Discrimination, Attributes & Rules - Odd One Out***

Supplier: Sunburst Communications

Formats: Ile C64

Demo: C64

Evaluation Level: LISTED

Curriculum Codes: PS MA

Grade levels: E I

A program for classification. Students are shown objects and must identify the one that doesn't fit. It can be ordered as a separate package and is included within *Discrimination, Attributes & Rules*.

Both formats are also available in a 10-disk lab pack.

■ ***Discrimination, Attributes & Rules - Teddy's Playground***

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: PS MA

Grade levels: I J

Develops critical-thinking skills as students work with attributes: shapes, colors and shading. It is available in both 3.5" and 5.25" disks, in an Appletalk Network version and in a 10-disk lab pack for both size disks. This package is available separately or is included within the package *Discrimination, Attributes & Rules*.

■ ***Discrimination, Attributes, & Rules - Ten Clues***

Supplier: Sunburst Communications

Formats: Ile MSDOS

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: PS MA

Grade levels: I J

Students must rely on reasoning abilities to decipher a message using individual clues. A "mystery message" is also solved by using both variable and critical attributes. Students may also create their own clues around a word or "mystery" message. Both formats are in a 10-disk lab pack. This package is available separately or is included within the package *Discrimination, Attributes & Rules*.

■ ***Discrimination, Attributes, & Rules - Tip'n Flip***

Supplier: Sunburst Communications

Formats: Ile MSDOS

Demo: Ile MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: PS MA

Grade levels: I J

The computer specifies a design which the student must try to match by flipping a pattern. The Apple format is available in both 3.5" and 5.25" disks and in an Appletalk Network version. All formats are available in a 10-disk lab pack. This package is available separately or is included within the package *Discrimination, Attributes & Rules*.

■ *Elastic Lines*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: I J

This is a computer version of using electronic geoboards to explore math concepts.

The program is applicable at several levels and relates to many math topics. It is open-ended; students get to make choices as well as follow directions provided by the program. The program is appropriate for individual, small or large group instruction. It is easy to use with clear instructions. The useful teacher manual also has work-sheets. Also available in a 10-disk lab pack.

■ *Factory, The*

Supplier: Sunburst Communications

Formats: Ile C64 PC DOS T1000

Demo: PC DOS-5 T1000 Ile C64

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: I

The program helps to develop visual discrimination, spatial perception and logic by building simulated assembly lines of three types of machines.

Factory is a program designed to provide a highly visual, graphic, problem-solving experience. Throughout the program a learner must visualize and predict the effect a series of "machines" will have on a white, square product as it moves through them. A learner will use visual and spatial discrimination, will explore order and sequence, will plan a solution to a problem and test the solution. All formats also available in lab packs. IBM 3.5 Network version can also be purchased.

■ *Generic CADD - Level 6.0*

Supplier: Hearlihy & Co.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: NEW LIST

Curriculum Codes: IT

Grade levels: J S

Generic CADD has all the features students need to do serious drafting, including operator definable line widths, named views and fast redraws. The program corresponds to *Generic CADD for Mac* which contains the usual Macintosh interface.

CADD permits drawings to be created in layers. CADD provides a variety of "snaps" to permit accurate placement of points in relation to other elements on the screen. Six types of zoom are provided. CADD 5.0 contains many enhanced features over earlier versions including reworking of the dimensioning interface. A "nesting" capability has been included in the command structure which facilitates the selection of commands. Drawings prepared using earlier versions of the software can be loaded into version 5.0. Files can be saved in level 3 format. Available in lab packs.

■ *Generic CADD: Student Edition - 1.02*

Supplier: Addison-Wesley Publishers LTD

Formats: Mac

Demo: Mac

Evaluation Level: NEW LIST

Curriculum Codes: IT

Grade levels: S T

This is a Macintosh version of *Generic Cadd 5*. It is supported by a carefully developed tutorial which begins with a simple drawing completion project and progresses through nine other tutorials which introduce students to multiview drawings, dimensioning, engineering graphics, floor plan and technical illustration.

Will work with any Macintosh with at least 1 MByte of memory. This package does not contain a plotting utility. Third party utilities, such as *Mac Plot* must be purchased separately.

■ *Geometric Supposer, Quadrilaterals*

Supplier: Sunburst Communications

Formats: Ile MSDOS MAC

Demo: MSDOS-5 Ile Mac

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: S

The Geometric Supposer: Quads is a microcomputer program that allows the user to carry out with ease constructions that are possible using straightedge and compass. These include the construction of quadrilaterals as well as the drawing of segments, parallels, perpendiculars, perpendicular bisectors, angle bisectors and inscribed and circumscribed circles. In addition, the

user can measure lengths, angles, areas and distances as well as arithmetic combinations of these measures such as the sum of two angles, the product of two lengths, or the ratio of two areas.

It provides an excellent learning environment for using a discovery approach in high school geometry and is easy to use. The program can be used effectively by individuals, small groups, or as an "electronic blackboard" with whole groups and a large display monitor. The Apple version is available in either 3.5" or 5.25" disks or an Appletalk Network version. There is also an IBM 3.5 Network version. Each format can be purchased in a 10-disk lab pack.

■ **Geometric Supposer, Triangles**

Supplier: Sunburst Communications

Formats: IIe MSDOS T1000 MAC

Demo: MSDOS-5-3 MAC IIe

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: S

This is a learning environment for discovering the rules and cases of triangle geometry.

The program provides an excellent student-directed learning environment for using a discovery approach in high school geometry and is easy to use. The program can be used effectively by individuals, small groups, or as an "electronic blackboard" with whole groups and a large display monitor. The Apple version is available in 3.5" or 5.25" disks or an Appletalk Network version. Also available in an IBM 3.5 Network version. Each format can be purchased in a 10-disk lab pack.

■ **Graphical Analysis III**

Supplier: Vernier Software

Formats: IIe MSDOS

Demo: IIe

Evaluation Level: LISTED

Curriculum Codes: SC

Grade levels: S

This program allows students to type in experimental results and use this program to help them analyze the data. Data tables may be edited, printed and saved on disk. Data may be transferred to or from programs such as *Appleworks*.

Students can graph experimental data and calculate slope, intercept and correlation coefficient. This program includes a site license. The MSDOS version is called *Graphical Analysis for MSDOS*.

■ **Graphing Equations/Green Globbs**

Supplier: Sunburst Communications

Formats: IIe MSDOS T1000

Demo: MSDOS-5 IIe T1000

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: S

This program offers a variety of practice with graphing equations.

Graphing Equations allows the student to draw the graph of various functions and to determine the equations of graphs drawn by the program. The simulation *Green Globbs* included in this program is an excellent exercise for relating equations with points on the co-ordinate system and graphs. The program needs a color/graphics adapter or a CGA emulation program. A color monitor is preferred. Also available in lab pack version.

■ **Infectious Disease - Biosolve 2**

Supplier: D.C. Heath and Company

Formats: IIe MSDOS

Demo: IIe

Evaluation Level: NEW LIST

Curriculum Codes: HL SC

Grade levels: S

The primary objective of the program is to encourage students to use deductive reasoning in diagnosing a medical problem. Students take the role of a medical investigator who discovers the origin of a particular infectious disease and plans actions to prevent further contamination.

Excellent program for students to solve medical problems deductively. Students are required to analyze symptoms, interpret data, plan activities sequentially and deal with a variety of variables. Investigations can be saved to disk to permit students to continue a previous investigation. Some students may be frustrated with the requirement to follow a specific sequence of procedures. Recommended as enhancement for grade 10 or 12 Biology.

■ **Internal Medicine - Biosolve**

Supplier: D.C. Heath and Company

Formats: IIe MSDOS

Demo: IIe

Evaluation Level: LISTED

Curriculum Codes: HL SC

Grade levels: S

Internal Medicine is part of the Biosolve series which challenges students to use deductive reasoning in diagnosing simulated human biology problems. Students must use their knowledge of anatomy and deductive reasoning to solve problem situations. *Internal Medicine* is both motivational and user friendly.

■ *Interpreting Graphs, Escape*

Supplier: Sunburst Communications

Formats: Ile MSDOS T1000

Demo: MSDOS-5 T1000 Ile

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: J

The software helps students make meaningful interpretations of graphs.

A set of graphs and possible explanations is presented to the student for interpretation. The set is limited but well-done. The program includes a simulation in which the student must read and interpret graphs in a game situation. The program needs a color/graphics adapter or CGA emulation program. A color monitor is preferred. This is also available in lab packs for each format.

■ *Jenny's Journey*

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: SS

Grade levels: I

This is a simulation designed to reinforce map-reading skills. The program places Aunt Jenny's car at some location on the Lake City map and challenges the student to get to some other location on that map.

The program provides simulated map reading experiences. It is flexible because of the three levels of difficulty and the choices that are built into the program. It would require introductory map activities and would not replace work with creating actual maps. Distance is displayed in miles and speed is displayed in miles per hour. Both formats are available in 3.5" or 5.25" disks.

■ *Logo (Terrapin)*

Supplier: Terrapin

Formats: Ile C64 MAC MSDOS

Demo: Ile C64 MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: I J S

LOGO is a structured programming language. With the "turtle graphics" component it provides a highly visual, logical structure through which to explore cause and effect. Learners at all levels may find it useful.

LOGO is an extensive programming language for learners at all levels of programming skill. It provides a learning environment through which an educator can provide experiences of number, distance, direction, form, logic, sequence, modularity, repetition, patterning,

and many others. With careful planning and attention, LOGO might be successfully used with learners as young as primary age through to adults. Unless materials are readily available, a teacher may find that he/she needs to do a fair amount of preparation before using LOGO. The MSDOS version is called *PC Logo*; Commodore version is called *Commodore Logo* and the 128 Apple version is called *Logo Plus*. Also available in lab packs of 5, 10 or 20 for the various formats.

■ *Logo II (LSCI) - Apple Logo II*

Supplier: Logo Computer Systems, Inc.

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: I J S

LOGO is a structured programming language. With the "turtle graphics" component it provides a highly visual, logical structure through which to explore cause and effect. Learners at all levels may find it useful. *LSCI Logo II* is a PRODOS-based version of LOGO.

LOGO is an extensive programming language for learners at all levels of programming skill. It provides a learning environment through which an educator can provide experiences of number, distance, direction, form, logic, sequence, modularity, repetition, patterning and many others. With careful planning and attention, LOGO might be successfully used with learners as young as primary age through to adults. Unless materials are readily available, a teacher may find that he/she needs to do a fair amount of preparation before using LOGO. A site license is available for this program. This program is available in 3.5" or 5.25" disks and in 10-disk lab packs for each format.

■ *LogoWriter Intermediate*

Supplier: Logo Computer Systems, Inc.

Formats: Ile IIgs MSDOS C64

Demo: Ile MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: I J

LogoWriter is a combination of the Logo computer language and a word processor. It has good support materials. A site license is available with a student copy option.

LogoWriter is a program which combines the graphics and programming features of LOGO with a simple word processor all in one environment. The LOGO language implementation in *LogoWriter* is significantly better than earlier versions of LOGO for young learners.

Having the word processing capabilities and the turtle graphics functions in one integrated environment provides learners with opportunities to explore shape and size, language and illustrations, and logic and form in a motivating way. The program is available in single packages, 6-disk lab packs or as a site license. The 128 Apple and IBM versions are both available in either 5.25" or 3.5" disks. LogoWriter (French) for Apple and IBM is also listed. It is available in 3.5" and 5.25" disks for both formats and in 6-disk lab packs for all formats.

■ **Lotus 1-2-3, High School Edition - 2.3**

Supplier: Addison-Wesley Publishers LTD

Formats: MSDOS

Demo: None

Evaluation Level: NEW LIST

Curriculum Codes: BE UT

Grade levels: S

This is a full version of *Lotus 1-2-3*- a blank spreadsheet which can be used to create forms, graphs and charts within a 256-column by 8192-row spreadsheet. It is appropriate for use in accounting, data processing, word processing and a variety of other subject settings. It is user-friendly and students seem to experience very little difficulty in using the package. This would appear to be directly related to the quality of the reference section that accompanies the product. It is available in individual packages or as a site license for use in multiple stations or through a network. Available in 3.5" or 5.25" disks. This edition is available in single packages, 10-lab packs or 30-lab packs. The lab packs include a detailed teachers manual and license to network 10 or 30 stations respectively. Teachers guide contains suggested activities to support business and other subject areas. The teachers guide also includes instructions to facilitate setting up the program on a network.

■ **Lotus 1-2-3, Standard - Industry Standard**

Supplier: Lotus Development Corporation

Formats: MSDOS

Demo: MSDOS

Evaluation Level: LISTED

Curriculum Codes: BE

Grade levels: S

Lotus 1-2-3 is a full-featured spreadsheet which can be used to create forms. It can produce both graphs and charts within a 256-column by 8192-row spreadsheet. It contains a "translate" utility to import and export files among other software packages. It is user-friendly and students seem to experience very little difficulty in using the package. It is available in individual packages or as a site license for use in multiple stations or through a network. Version 3.0 requires a 286 or 386 CPU,

Version 2.2 is for slower CPU's. Available in 3.5" or 5.25" disks. A minimum purchase of 6-units is required.

■ **Lotus 1-2-3, Student Edition - 2.2**

Supplier: Addison-Wesley Publishers LTD

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: BE

Grade levels: S

This is a restricted version of *Lotus 1-2-3*- a blank spreadsheet which can be used to create forms, graphs and charts within a 256-column by 8192-row spreadsheet. Nine labs provide step-by-step tutorials with case studies, practice exercises and disk-based templates. It is appropriate for use in accounting, data processing and word processing. It can be used in conjunction with either *Century 21* or the *Kaluza* texts. It is user-friendly and students seem to experience very little difficulty in using the package. This would appear to be directly related to the quality of the reference section that accompanies the product. It is available in individual packages or as a site license for use in multiple stations. Available in 3.5" or 5.25" disks.

This restricted version of *Lotus* can not be networked.

■ **MacDraft - 2.0**

Supplier: Hearlily & Co.

Formats: MAC

Demo: Mac

Evaluation Level: LISTED

Curriculum Codes: UT IT

Grade levels: S

This computer-assisted drafting package is menu driven and easy for beginners to use. Features include zoom, rotation, auto dimensioning and custom fill patterns. *MacDraft* offers 18 customary scales as well as 14 metric scales, including a conversion feature.

It is possible to zoom in on any part of the drawing up to eight times normal magnification. The rotation feature allows rotation of single or grouped objects in as little as one degree increments. The auto dimensioning lines display the proper size of the object regardless of the scale. The program is relevant to the junior high graphic communication course and at the senior high level is appropriate for other areas such as manufacturing, construction and communications technology courses.

■ **Magic Slate II**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: E I J S T

This is a word processor with 20-, 40-, and 80-column display. In 20-column mode the letters are double size in both dimensions. Menu driven, the print-out is exactly as the screen shows. It should be considered for small children and sight-impaired and comes with a large manual and teaching guide.

Content is appropriate for grades three and up. The support materials are very comprehensive and provide all the necessary information for using the program in a variety of instructional settings. The "help" options use windowing techniques to display information in a small box on the screen. The 20-column version is an added bonus for primary teachers and those who want to make large text overhead transparencies. The 80-column version builds upon what the students have already learned, and is a full-featured word processing program with split screen capabilities and definable function keys to speed up performance. This program comes in 3.5" or 5.25" disks for each of the column displays an in lab packs for each. There is also a complete set of 20-40-80-column display available. Also available in Appletalk Network version.

■ *Math Activities Courseware 7*

Supplier: Houghton Mifflin Canada Ltd.

Formats: Ile MSDOS C64

Demo: Ile MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: J

The concepts and skills embedded in the programs are mathematically and pedagogically sound and worthwhile. The presentation of ideas is appropriate; for example, number lines are used to visualize the ordering of rationals, and fraction ideas are approached intuitively rather than by rules. The strong emphasis on estimation in a number of activities provides students the opportunity to extend their skills in this area. The activities are motivating and require higher level thinking. Problem-solving games are included, and students may work co-operatively in small groups or competitively in pairs. The activity sheets require the students to provide feedback. This software provides a good preview and review of concepts students encounter in junior high classes.

■ *Math Activities Courseware 8*

Supplier: Houghton Mifflin Canada Ltd.

Formats: Ile MSDOS C64

Demo: Ile MSDOS-5 C64

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: J

The concepts and skills embedded in the programs are mathematically and pedagogically sound and worthwhile. Content reinforcement is similar to the grade 7 set but is more challenging. Different formats and strategies are used. Includes a geometric simulation. Strong emphasis on estimation is continued.

■ *Mathematics Exploration Toolkit*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-5-3

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: S

Mathematics Exploration Toolkit (MET) is a set of tools for both teaching and learning mathematical concepts. MET can help users graph equations in three colors, perform matrix operations, evaluate definite integrals and manipulate trigonometric expressions. Students can manipulate symbols to solve the most advanced algebraic problems and multivariate equations quickly. The plotting feature allows for the simultaneous display of symbolic manipulations and the visual representation of symbols. The single pack and the LAN pack contain two 5.25" dual-sided program diskettes, one 3.5" program diskette and one set of documentation.

■ *Memory: A First Step*

Supplier: Sunburst Communications

Formats: Ile PCDOS

Demo: Ile PCDOS-5

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: E I

Memory is a very large primary to 6 package which includes ten programs and a complete set of teacher resource materials. All of the programs in the set are designed to develop a child's memory. *Simon Says*, *Teddy and Iggy*, and *What's in a Frame* are designed to give a learner practice in remembering sequences. *Concentration* is a computer version of the popular memory matching game. *First Things First* involves remembering shapes, while *Pick The Part* and *Was It There* involve remembering parts of a whole. *Regrouping* deals with the strategy of regrouping objects to remember them, *Self-testing* is practice in rehearsal and *Memory Castle* deals with remembering instructions. The complete package can be ordered and will include the ten programs and a hand puppet to use with some of the

SECTION ONE: LISTED

activities. Five of the ten programs noted above can be ordered individually. The teacher's resource materials include suggestions for classroom and computer activities, black-line masters and more.

■ *Memory: The First Step - Memory Castle*

Supplier: Sunburst Communications

Formats: Ile C64 PC DOS T1000

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: I

The program is a memory developing game with varying levels of difficulty.

See *Memory: A First Step*. This program is available as part of the *Memory* package or as a separate program. The Apple version is available in either 3.5" or 5.25" disks or an Appletalk Network version. Also available in a 10-disk lab pack.

■ *Memory: The First Step - Regrouping*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: PS MA

Grade levels: E

This is a package consisting of three programs to provide practice in regrouping as a memory strategy.

See *Memory: A First Step*. This program is part of the full package or can be ordered separately. Available in either 3.5" or 5.25" disk, an Appletalk Network version or a 10-disk lab pack.

■ *Memory: The First Step - Simon Says*

Supplier: Sunburst Communications

Formats: Ile C64

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: E

Simon Says is a program for developing memory. Students are asked to remember a sequence of colors, letters or numbers.

See *Memory: A First Step*. The Apple version is available in either 3.5" or 5.25" disks. All formats are available in a 10-disk lab pack.

■ *Memory: The First Step - Teddy and Iggy*

Supplier: Sunburst Communications

Formats: Ile C64

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: E

The program provides practice in remembering sequences.

See *Memory: A First Step*. The Apple format is available in 3.5" and 5.25" disks. Also available in 10-disk lab packs for all formats.

■ *Memory: The First Step - What's in a Frame?*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: E I

In this program students are shown a number of objects in a picture frame and then are asked to remember what they have seen.

See *Memory: A First Step*. This is available in 3.5" or 5.25" disks, an Appletalk Network version and 10-disk lab packs in both sizes.

■ *Microcomputer Keypad Operation*

Supplier: Nelson Canada Ltd.

Formats: Ile T1000 MSDOS

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: BE

Grade levels: S

This program provides a short course on using a numeric keypad by touch. In only a few hours, the student could become comfortable with either a calculator or computer keypad. The math section at the end of the program allows the student to demonstrate this new skill in a practical way.

A main menu with several activities listed in each option provides easy-to-follow instructions. Activities are short in duration and provide excellent feedback for student development. A student with no prior computer experience would have no difficulty in using this software. The Apple version is only available in 5.25" disks.

■ *Microsoft Works - 2.0*

Supplier: Microsoft Canada Inc.

Formats: Mac MSDOS

Demo: Mac MSDOS-3

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: J S T

An integrated word processor, spell checker, spreadsheet,

graphing, database and electronic communications program. It is controlled through menus or an optional mouse (MSDOS). Help is available on screen.

Works is a well-designed utility program in an integrated working environment. Text or data can be easily interchanged among the component programs, and each program can be used without exiting the system and reloading. A consistent set of keys is used to perform similar functions within each sub-program. It is appropriate for general use by a variety of students. It is available in individual packages or as a site license for use in multiple stations or through a network. MSDOS format is available in 3.5" or 5.25" disks. French version is also listed.

■ *More Teasers from Tobbs*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: I J

This math program expands the popular *Teaser* series to include fractions and decimals.

It is a flexible piece of software which could be useful as one way of providing experiences with decimals and fractions. The focus is on having students decide what operation to use and instructing the computer to carry out the operation(s). It is open-ended - more than one answer is acceptable and options can be controlled by teachers. Available in 3.5" or 5.25" disks, an Appletalk Network and 10-disk lab packs.

■ *Newsroom*

Supplier: Kobetek Systems Ltd.

Formats: Ile C64 MSDOS

Demo: Ile C64 MSDOS-5 IIGs

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: I J

Newsroom combines the writing/editing component of the word processor with graphics capabilities in a unique publishing environment. Students can use and modify a piece of clip art or create their own designs from scratch in the *Photo Lab*. Their photos can be electronically pasted onto a panel with the text of a story written around it. A newspaper banner can be created and a newspaper page can be "laid out." The page can be printed or sent through the telephone lines to another computer also using *Newsroom*. Communications in the C64 version is limited to 300 BAUD. MSDOS version requires a Color Graphics Adaptor or simulated graphics.

Although in use for several years, young children may find *Children's Writing and Publishing Centre* easier to use; junior high and later may prefer the flexibility of a desktop publishing program such as *Page Maker*.

■ *Oxford Pascal*

Supplier: Kobetek Systems Ltd.

Formats: C64

Demo: C64

Evaluation Level: LISTED

Curriculum Codes: CS

Grade levels: S

The program is an implementation of Pascal which contains both an interactive version and a compiled version of Pascal.

This package is a full-featured implementation of the Pascal programming language for the Commodore 64 computer. It provides the standard Pascal commands and structures. *Oxford Pascal* includes two different programming environments. One is an interactive mode in which small programs can be coded and run immediately in a fashion similar to BASIC programs. The second mode provides an editor and compiler version for larger, faster executing programs. The language allows access to Commodore 64 graphics.

■ *PC Globe 5.0*

Supplier: PC Globe, Inc.

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: SS

Grade levels: J S

PC Globe is a versatile computerized world atlas that puts a wealth of maps and data at your fingertips. It contains an extensive database of information on 208 countries. Version 5.0 has updated to reflect changes in the USSR. A quick retrieval database of world statistics, *PC Globe* also motivates students to explore and display geographic data. Topics match social studies curriculum. However, some data is insufficient for high school study. See *MacGlobe* for MacIntosh version.

■ *Pocket Filer - 2.0*

Supplier: Digital Solutions Inc.

Formats: C64/128

Demo: C64/128

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: J S

Pocket Filer 2.0 is a database program for C64 and C128 computers. The package contains both versions.

The program is menu driven and works with a single file at a time. File size is limited by disk capacity and not memory. The three separate modes of "Create, Enter/Edit and Report" each must be exited and loaded separately which is somewhat time-consuming. Files can be searched by more than one characteristic and by a "contains" type of search. The program allows for the input and output of standard ASCII files. A "Superpack" containing the three "Pocket" programs is also available.

■ *Pocket Planner - 2.0*

Supplier: Digital Solutions Inc.

Formats: C64/128

Demo: C64/128

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: J S

Pocket Planner 2.0 is an easy-to-use electronic spreadsheet program for Commodore 64 (40-column) and C128 (80-column) computers. The package contains both programs.

In addition to normal features of a spreadsheet, there is an excellent graphing utility which prints in B&W or displays color on screen. Additional help is available throughout the program by pressing F7 or "Help" on C128. Cells are identified in letter and number format (e.g., A1,B4). Equivalent copy adjusts entire formulas for new locations. Absolute and relative values can't be mixed. A "Superpack" containing the three "Pocket" programs is also available.

■ *Pocket Writer - 2.0*

Supplier: Digital Solutions Inc.

Formats: C64/128

Demo: C64/128

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: J S

This is an easy-to-use word processing program that contains modes for both 40- & 80-column modes on the C128, and 40-column mode on the C64. It is almost totally menu driven and is "WYSIWYG" screen formatting.

Pocket Writer 2.0 is easy to use and displays on screen show what the printout will look like including italics, bold and underlining. The 80-column version is excellent (needs an RGB monitor). Editing on the 40-column version on the C64 is more difficult. The program allows for input and output of both ASCII and program type files. A "Superpack" containing the three "Pocket" programs is also available.

■ *Pond, The*

Supplier: Sunburst Communications

Formats: Iie C64 PC DOS T1000

Demo: Iie C64 PC DOS-5 T1000

Evaluation Level: LISTED

Curriculum Codes: PS

Grade levels: E I

The Pond is a program that encourages children to search for patterns and formulate a hypothesis in a graphic environment. The learner must move a frog from lily pad to lily pad to determine a pattern that will allow the frog to cross the pond without getting wet. The learner will discover order and sequence, may improve perception and will use an experimental process to solve a two- to three-step problem. Also available in lab packs and an IBM 3.5 Network version.

■ *Print Shop*

Supplier: Broderbund

Formats: Iie C64 MSDOS Mac

Demo: Iie C64 MSDOS-3 Mac

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: E I J T

A graphics and print utility program, it allows the user to create and print greeting cards, signs, letterhead and banners. It is a simple-to-use, menu-driven program. The Apple II and MSDOS versions are the current *New Print Shop* which include the ability to add more than are graphic design, and to manipulate graphics in size, color (needs color printer) and vertical or horizontal orientation. Font size and appearance is more varied and this version includes a calendar. Users can select from menus using a mouse or joystick. Two disk drives or a fixed disk drive are recommended. The IBM/Tandy version is available in 3.5" or 5.25" disks.

■ *Puzzle Tanks*

Supplier: Sunburst Communications

Formats: Iie PC DOS C64 T1000

Demo: PC DOS-5 Iie

Evaluation Level: LISTED

Curriculum Codes: PS MA

Grade levels: I J

Puzzle Tanks is a computer version of the old problem in which you have two ungraduated beakers and an unmeasured amount of liquid. Your task is to arrive at a specific measure of the liquid by pouring back and forth between the beakers. For example - given beakers of capacity 9 litres and 6 litres can you get 3 litres? Yes, fill the 9 litre beaker, pour off enough to fill the 6 litre beaker and you will have 3 litres left. *Puzzle Tanks*

creates an animated graphics implementation of these problems. There are various levels of difficulty, including some problems that are impossible (given tanks holding 2 litres and 4 litres, try to get 3 litres.) The Apple program is also available in an Appletalk Network version. All formats are available in 10-disk lab packs.

■ *Right Turn*

Supplier: Sunburst Communications

Formats: Ile C64 PCDOS T1000

Demo: PCDOS-5 Ile C64

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: I J

A program to allow students to experiment with mathematical transformations, it also provides practice in analyzing a problem and predicting an outcome.

Right Turn creates an environment for experimenting with the transformations - reflections and rotations (flips and turns). The learner is presented with a three-by-three array of colored squares. A second array shows the result of applying a transformation to the given array. The learner must determine the kind of transformation and then apply that transformation to a new array. This program supports the objectives of the geometry part of the mathematics curriculum. The Apple version is available in a 3.5" or 5.25" disk format or an Appletalk Network version. All formats are available in a 10-disk lab pack as well.

■ *Robcat*

Supplier: Hearlihy & Co.

Formats: Ile C64 MSDOS

Demo: Ile C64

Evaluation Level: LISTED

Curriculum Codes: IT

Grade levels: S

The program represents industrial robotics - fundamentals of robotic programming and problem-solving techniques. This program is just one type of robotics (servo) - point to point.

Robcat provides a visual means by which students can learn and explore the area of robotic technology. The software allows the student to manually operate a robot or to train a robot to perform automated operations. Also available in 5-disk lab pack.

■ *Science Toolkit Plus - (Master Module)*

Supplier: Broderbund

Formats: Ile MSDOS T1000

Demo: Ile MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: SC

Grade levels: I J S

Science Toolkit consists of a simple interfacing tool to be used primarily in the science program. By plugging a photocell or temperature probe into a supplemental connector, the computer accurately computes temperature and light levels.

This program will fit into the upper elementary and junior science program. It can be used to measure and compare temperatures and light levels, graphs or time experiments. It can save and print data in units assigned by the student. A number of supplementary modules permit experiments in speed, vibration and human physiology. Tandy 1000 version is supplied with round game port plug. MSDOS version needs optional games port adapter. Both Tandy and MSDOS versions are available in 3.5" or 5.25" disks.

■ *Science Toolkit, Module 1 - Speed and Motion*

Supplier: Broderbund

Formats: Ile MSDOS

Demo: Ile MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: SC

Grade levels: I J

This is Module 1 of a series of add-on kits for the *Science Toolkit* which allows students to discover factors concerning speed, acceleration and rotation. The kit includes an additional photocell, manual and a balloon-powered car.

The concept of speed and acceleration can be demonstrated and the equipment allows for self-designed experiments. Needs *Science Toolkit Plus, Master Module*. The MSDOS/Tandy version is available in either 3.5" or 5.25" disks.

■ *Sensible Speller*

Supplier: Sensible Software Inc.

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: UT

Grade levels: S

This is a spelling checker for Apple PRODOS word processors including *Appleworks*. The program is available in 3.5" and 5.25" disk formats. Using the disk-based *Random House Dictionary*, text files from a variety of word processing programs can be checked. Users can also look up words in the dictionary using wild card characters to replace letters of which they are unsure.

In order to use *Sensible Speller*, users must first exit the

word processing program and then load the speller program. The program must load and check the complete text file before identifying suspect words. Identifying the location of the dictionary is slightly confusing in a program that is otherwise menu driven. The program lists on screen and/or printer a word frequency table in alphabetical order for all words in the text, a list of suspect words and a list of words that were corrected with their replacement. The last item could be used to create customized spelling lists for each student.

■ *SimCity*

Supplier: Broderbund
 Formats: MSDOS C64 MAC
 Demo: MSDOS-3
 Evaluation Level: LISTED
 Curriculum Codes: SS IT
 Grade levels: J S

SimCity is the first of a new type of entertainment/education software called system simulations. You are provided with rules and tools which help create your system, in this case a city. You have to figure out how the system works and take control of it.

SimCity permits students to simulate urban development. Users assume the position of mayor and make decisions based on what is currently required. Periodic checking may be done in order to preview the updated work evaluation. A CGA (or better) monitor and 640 K of memory is recommended.

■ *Sir Isaac Newton's Games*

Supplier: Sunburst Communications
 Formats: Ile PC DOS T1000
 Demo: PC DOS-5 T1000 Ile
 Evaluation Level: LISTED
 Curriculum Codes: SC
 Grade levels: J S

Discover the effect of the Laws of Newton on objects in various environments.

Newton's Laws of Motion are built into the graphics screen of the computer in this program. Learners are given the opportunity to discover for themselves what it is like to apply forces in a particular direction in a frictionless environment or to discover the effect of the gravitational pull of the sun on an object in space. They can compare movement on grass with movement on sand or ice. While the program does not formalize the Laws of Motion, students can see the effect and can experiment to obtain various results. All formats also available in 10-disk lab packs.

■ *Small Engine Repair Shop*

Supplier: Hearlihy & Co.
 Formats: Ile MSDOS
 Demo: MSDOS-5
 Evaluation Level: LISTED
 Curriculum Codes: IT
 Grade levels: S

This program is designed to challenge your ability to diagnose common small engine problems. You will diagnose five engines each time you play. Each will have different problems. You determine the problem and your score determines your rank.

This user-friendly program develops and tests a student's knowledge of a common small engine. The student must use their acquired knowledge, problem-solving skills and decision-making abilities to pinpoint the problem which is causing the engine failure. There are five different simulations to solve. This may be worked on individually or in groups.

■ *Superfactory, The*

Supplier: Sunburst Communications
 Formats: Ile C64 MSDOS
 Demo: Ile
 Evaluation Level: LISTED
 Curriculum Codes: PS
 Grade levels: J

In this program, students become familiar with the properties of a three-dimensional cube while learning the four steps of problem-solving.

Superfactory is an enhanced version of *Factory*. It presents a highly visual, three-dimensional graphic problem-solving experience. Throughout the program a learner must visualize and predict the effect a series of actions will have on a cube. The learner will use visual and spatial discrimination, will explore order and sequence, will plan the solution to a problem and will test the solution. The Apple version is available in 3.5" or 5.25" disks. All formats available in a 10-disk lab pack.

■ *Superkey*

Supplier: Scholastic-TAB Publications Ltd.
 Formats: Ile
 Demo: Ile
 Evaluation Level: LISTED
 Curriculum Codes: UT
 Grade levels: J

Superkey is a typing tutorial program for Apple II computers designed to give practice in correct fingering on a keyboard. It is recommended that an overall plan for keyboard instruction which includes paper-based activities, proper use of fingering techniques while

writing in the word processor and experience with a program such as *Superkey* be developed. Also available in a 10-disk lab pack.

■ *SuperPaint - 3.0*

Supplier: Silicon Beach Software

Formats: Mac

Demo: Mac

Evaluation Level: LISTED

Curriculum Codes: IT UT

Grade levels: J S T

SuperPaint is a graphics creation program that features a layer for dot-by-dot editing (paint) and one for manipulating objects (draw). It contains a utility to convert a dot-mapped image to a "draw" image. Version 3.0 requires version 6.0.5 or later of the Macintosh operating system. System 7.0 compatible. Two megabytes of RAM is recommended for B/W monitors and four megabytes of RAM is recommended for color monitors.

Instructions in the manual are conveniently illustrated between the appropriate graphics, and are clearly shown. The graphic illustration and manipulation by the mouse is very well done and adds to the convenience of operating the program. The program has been significantly upgraded from version 1 with enhancements to the "draw" mode which permit flexibility in stretching, rotating and flipping a figure that would be normally available in the "paint" mode.

■ *Teasers by Tobbs - With Whole Numbers*

Supplier: Sunburst Communications

Formats: Ile C64 MSDOS T1000

Demo: MSDOS-5 Ile C64 T1000

Evaluation Level: LISTED

Curriculum Codes: MA

Grade levels: E I

In *Teasers* students are presented with a grid that they must complete to create a true operations table. The program has six levels of difficulty in both addition and multiplication.

Students may pass, go to a new puzzle, get help or escape at any time. The program allows the student to be a thinker and organizer. At the higher levels, questions have a variety of acceptable answers. An IBM 3.5 Network version is also available. All formats can be purchased in 10-disk lab packs as well. Updated in 1991 to include an option to set the range of numbers presented.

■ *The Geometer's Sketchpad - 1.0*

Supplier: Key Curriculum Press

Formats: MAC

Demo: MAC Mac-network

Evaluation Level: NEW LIST

Curriculum Codes: MA

Grade levels: J S

Geometer's Sketchpad can be used to construct a variety of figures. Once the figure is drawn, students or teachers can transform it with the mouse while preserving the geometric relationships of the construction. The geometric constructions lead to generalizations as you see which aspects of geometry change and which stay the same.

This program brings geometry to life. The user can construct geometric figures and measure all attributes of the figure. Click on the figure and watch measurements reflect changes in the size and shape of the figure as it is modified. Allows students to construct their own learning. Allows for scripts and animation. Useful as a demonstration tool as well as a hands on student activity.

■ *TurboPascal 6.0*

Supplier: Borland International

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: UT CS

Grade levels: S

This is the common *Turbo Pascal* language which requires a CP/M card to operate on an Apple IIe.

TurboPascal is a full-featured implementation of the Pascal programming language for Apple and IBM computers. The Apple version will only operate in computers that are equipped with a CP/M 80 card. *TurboPascal* is a traditional version of the language. The IBM version allows some access to graphics, however the Apple II version does not. *TurboPascal* is an industry standard for the Pascal language. It is very fast and conforms to established conventions. The editor contained in the program is similar to *Wordstar*. Stand-alone programs can be developed.

■ *Where in the World is Carmen Sandiego?*

Supplier: Broderbund

Formats: Ile IIgs C64 MSDOS MAC

Demo: Ile C64 MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: SS

Grade levels: I

This is a simulation program in which the child acts as a detective for Interpol who must track a criminal around the world by interpreting clues and researching facts.

Where in the World is Carmen Sandiego? is an inter-

active adventure simulation in which the child must decipher clues to solve a mystery and capture a thief. The *World Almanac* which comes with the program can be used to solve the clues provided in the various scenarios. This is an excellent, highly motivating program, one which would enhance the development of research skills. All formats are also available in lab packs. The MSDOS version requires frequent disk swapping, but may be installed on a hard disk drive.

■ **Word Play**

Supplier: Hartley Courseware Inc.

Formats: Ile

Demo: Ile

Evaluation Level: LISTED

Curriculum Codes: LA SS MA

Grade levels: E

Word Play encourages students to make predictions, take risks, reason, solve problems, use spelling and relate to previous experiences. The program gives opportunities to play with words - through words being jumbled, words being considered in various classifications and cryptograms.

The program is highly recommended because it has built-in motivation. It helps develop deductions regarding most common vowels and consonants that appear in words. Categories are provided beforehand, which gives a focus for each game.

■ **WordPerfect (French) - 5.0**

Supplier: WordPerfect Corporation

Formats: MSDOS

Demo: None

Evaluation Level: LISTED

Curriculum Codes: BE UT

Grade levels: S

This comprehensive word processing package is industry standard. It includes a spellchecker, a thesaurus, built-in mathematics functions and elaborate merging features. File sizes are limited only by the capacity of the disk. Online help is available. The screen can be split horizontally allowing the user to operate and switch between two files. DOS commands are accessible from within the *WordPerfect* program. The graphics feature allows the importation of graphics and the creation of lines and boxes. The classroom workbook is a useful supplement to the software. The documentation of this program is well-organized, comprehensive and sequential.

The program is available for single workstations or as a networkable version. *WordPerfect* uses function keys in combination with the alternate, control and shift keys

to access most functions including save and underline. The program can import and export ASCII files. A hard disk is recommended. It is available in individual packages in either 3.5" or 5.25" disks or a site license for use in multiple stations or through a network. A hard disk drive is highly recommended.

■ **WordPerfect For DOS - 5.1**

Supplier: WordPerfect Corporation

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: BE UT

Grade levels: S

This comprehensive word processing package is industry standard. It features speller, a thesaurus, built-in mathematics functions and elaborate merging features. File sizes are limited only by the capacity of the disk. Online help is available. The screen can be split horizontally allowing the user to operate and switch between two files. DOS commands are accessible from within the *WordPerfect* program. The graphics feature allows the importation of graphics and the creation of lines and boxes. The classroom workbook is a useful supplement to the software. The documentation of this program is well-organized, comprehensive and sequential.

The program is available for single work stations or as a networkable version (See order form from NSSBB). *WordPerfect* uses function keys in combination with the alternate, control and shift keys to access most functions including save and underline. The program can import and export ASCII files. A hard disk drive or file server is virtually required. This program can be purchased with 3.5" or 5.25" disks. For each copy purchased at full retail price, schools can request from Word Perfect Corporation a free licence and keyboard templates to make or run eight copies.

■ **Writer's Helper Stage II - 2.0**

Supplier: Conduit

Formats: Ile MSDOS

Demo: Ile MSDOS-5

Evaluation Level: LISTED

Curriculum Codes: LA

Grade levels: J S

This is a totally updated version of *Writer's Helper*. It is designed to help reluctant writers gather and organize ideas for a writing project. Activities are divided into a disk of pre-writing and a disk of revising tools. Files which are prepared using this program can be saved to diskette and edited using common PRODOS-based word processing programs such as *Apple Works*.

Teachers can easily customize each "start-up" disk to vary the pre-writing and revising activities and data disk available to each student.

The program helps students in the initial "idea generating" stage of writing by providing a number of pre-writing activities in a varied and interesting fashion. Once the student has been helped to generate a writing idea, the revising activities can be used to polish and improve. The program would be a valuable aid to students to develop writing process skills and should enable them to help see themselves as writing craftsmen. The program is easy to use and supports a fine range of word processors and printers. The program appeals to those students who are serious about wanting to improve their writing skills. It is less of a help to the unmotivated. The program is slow to load and first-time users may be confused by menu selections. (Needs enhanced Apple IIe/c/gs) A site license is available for this program. Both formats are available in 3.5" or 5.25" disks and in a 6-, 15-, or 25-disk educator pack for either disk size.

■ ***Writing and Publishing Center***

Supplier: Learning Company, The

Formats: IIe MSDOS

Demo: IIe MSDOS-5-3

Evaluation Level: LISTED

Curriculum Codes: LA UT

Grade levels: I J

Children's Writing and Publishing Center lets you be the writer, editor, designer, illustrator and publisher all in one. Besides a library of pictures, the program has the ability to wrap text around pictures selected by the user. The program has a helpful user's guide. It updates writing through revision, editing and publishing. It is easy to use by young children. A helpful sample lesson is included. Although suited for young children, formatting is limited. It is not a substitute for a flexible desktop publishing program. Also available in 6-disk lab packs. Both formats are available in either 3.5" or 5.25" disks.

SECTION TWO

RECOMMENDED SOFTWARE

■ *AccessPC*

Supplier: Insignia Solutions Inc.

Formats: MAC

Demo: MAC

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: J S

This program allows a Macintosh to recognize MSDOS diskettes in an Apple 3.5" superdrive. Note: *AccessPC* does not permit MSDOS programs to be run on a Macintosh computer. *AccessPC* permits MSDOS and MAC data files to be read into software such as Microsoft Word which supports both formats. It can be used with software such as MacLINK to convert double density data files from MAC to MSDOS or MSDOS to MAC directly on a single Macintosh computer with a Superdrive.

The package is a very useful for any environment which uses both MSDOS and Macintosh computers. Data must be stored on a 3.5" floppy diskette in 800 K format on a Mac or 720 K format in MSDOS. *AccessPC* permits MSDOS files to be saved on a Macintosh hard drive. Users must purchase third party translation utilities to effectively convert complex word processing or spread sheet files with all formatting intact.

■ *Addition - Math Tutor*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: MA

Grade levels: E I

The program provides step-by-step instruction and repetition of basic arithmetic skills.

The program is a good supplement for resource or regular classroom use. Some students found the directions difficult to follow and needed teacher assistance initially. Program contains some record keeping and placement tests, but placement tests merely assign a starting level and do not provide feedback on specific competence.

■ *Aldus PageMaker - 4.2*

Supplier: Aldus Corporation

Formats: Mac MSDOS

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: S T

The program offers complete flexibility in design in desktop publishing. It allows columns of varying widths;

prints type as large as 127 points, imports text typed on a word processor which can be edited on PageMaker's built-in text editor lets user set up style sheets to pre-define every part of a document imports illustrations or graphics directly into pages which can be cropped or scaled to fit provides automatic left-right page orientation and flow of text from page to page and produces near-typeset-quality pages when printed on a laser printer.

This is an industry standard, desktop publishing program. Text and graphics can be imported in various formats from a variety of word processing and paint programs. Check for special pricing for educational use. (See also *Ready, Set, Go.*)

■ *Aldus PageMaker 4.0 - Student Edition*

Supplier: Addison-Wesley Publishers Ltd.

Formats: Mac

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: IT UT

Grade levels: J S

Aldus PageMaker is a powerful tool for designing, editing and producing printed messages. It combines superior layout capabilities with excellent graphics and text editing features. This student edition is fully compatible with the professional version.

Aldus Pagemaker 4.0, Student Edition possesses the majority of features used within the commercial version. The student edition limits documents to 12 pages and only 10 copies of documents may be requested at one time.

■ *All The Right TYPE*

Supplier: Didatech Software

Formats: Apple MSDOS Mac C64

Demo: MSDOS-5-3 MAC Ile C64

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: E J S

All The Right TYPE is an interactive keyboard tutorial. It provides a four step approach: 1. Teach new keys; 2. Emphasize accuracy and speed; 3. Build skills with advanced words, sentences and paragraphs and 4. Test after every third lesson. The Macintosh version permits students to continue at the point they left a keyboarding lesson.

The program offers the flexibility to allow or disallow the delete key and word-wrap feature in skill builders and tests. On-screen display illustrates correct fingering. Reversed letters count only as single errors. Student "take home" diskettes are available. The built in authoring

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language permits teachers to design lessons for their students. This program is suitable for extra practice after keyboarding instruction.

■ *Alpine Tram Ride*

Supplier: Learning Company, The

Formats: IIe

Demo: IIe

Evaluation Level: RECOM RSV

Curriculum Codes: PS

Grade levels: I

Alpine Tram Ride will develop the following problem-solving strategies: analyzing clues, making inferences, drawing logical conclusions, detecting patterns and experimenting with solutions.

The program allows students to experience a variety of problem-solving strategies and would be of greatest benefit in a small group situation where solutions can be discussed and analyzed. Development of efficient recording techniques should be encouraged as an important aspect of the program.

■ *AppleWorks GS - 2.1*

Supplier: Claris

Formats: IIgs

Demo: IIgs

Evaluation Level: RECOM RSV

Curriculum Codes: LA

Grade levels: J S

This is a version of AppleWorks specifically designed for the Apple IIgs. It requires a minimum of 1.25 MB of memory, and a hard disk is recommended. The program includes a spell checker, dictionary and communications package.

The program is very slow to load. It will not load from the older Unidisk, only from a regular 3.5" platinum disk drive. Changing between modes (word processor, database, etc.) is slow. It does display on screen the printed format of data (wysiwyg) such as italics, bold and underlining. While the program includes desktop publishing, communications and paint, it is not recommended for use without a hard disk because of frequent swapping of three or four 3.5" diskettes.

■ *Archeology Search*

Supplier: Maxwell MacMillan

Formats: IIe

Demo: IIe

Evaluation Level: RECOM RSV

Curriculum Codes: SS

Grade levels: S

Using one computer, a team of students conduct a

search of an ancient site using modern techniques.

The program helps students appreciate and understand how archeology works, how an archaeologist makes sense of his dig and interprets artifacts. Students have a chance, through the computer, to role play and have a "hands-on" approach to an archaeological dig. This simulation provides an excellent way to involve students in critical thinking, organizational skills and helps to develop interpersonal skills through the team meetings.

■ *Bank Street Speller*

Supplier: Broderbund

Formats: IIe MSDOS C64

Demo: IIe C64

Evaluation Level: RECOM RSV

Curriculum Codes: UT

Grade levels: I J

The program is a spelling checker to accompany *Bank Street Writer*.

A good spelling checker, but it is limited to *Bank Street Writer* files and must be loaded separately. Provides information on frequency and spellings which can be printed out to develop student word lists. The C64 version is very slow and requires frequent disk swapping. Users must exit the word processing program and load the spell checker in order to verify the file.

■ *Biofeedback Microlab*

Supplier: HRM Software

Formats: IIe

Demo: IIe

Evaluation Level: RECOM RSV

Curriculum Codes: SC HL

Grade levels: S

This package provides hardware add-ons and software to monitor body functions. Data is collected and stored by the computer. Various analysis operations can be performed on the data, and several styles of presentation including graphs and data are available.

The package permits accurate measurement of physiological data including temperature, pulse rate and skin resistance. It is accurate enough for professional use, but is relatively expensive.

■ *ClarisWorks*

Supplier: Claris

Formats: MAC

Demo: MAC

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: J S

This program is an integrated software program. It

combines word processing, graphics development, database management, spreadsheet work and telecommunications. System 7.0 compatible.

This is a powerful integrated software package for Macintosh users.

■ **Crosscountry Canada 4.0**

Supplier: Didatech Software

Formats: Ile MSDOS

Demo: Ile MSDOS-5-3

Evaluation Level: RECOM RSV

Curriculum Codes: SS PS

Grade levels: J

This program explores Canadian geography by simulating the role of a truck driver who uses a knowledge of geography to find the shortest route between a pickup point and the destination.

It is a game-type format similar to a graphic-based version of an adventure game. Student drivers must remember to rest, stop for food or gas and maintain a suitable speed. Maps are available on-screen to indicate progress across Canada. It is a limited problem-solving activity, but is restricted by the command structure and the limited list of resources at each city.

■ **dBASE IV - 1.1**

Supplier: Borland International

Formats: MSDOS Mac

Demo: MSDOS-5

Evaluation Level: RECOMMEND

Curriculum Codes: CS

Grade levels: S T

dBASE IV is a powerful relational database management system. It can store, relate, manipulate and retrieve data with great speed and efficiency.

dBASE IV is an industry standard program which is available in stand-alone and networkable versions. Simple, menu-driven applications can be created. *dBASE* contains a structured programming language appropriate for CRS courses.

■ **Discovery**

Supplier: Milliken Publishing Company

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: SC

Grade levels: I J

The program is concerned with solving problems and developing problem-solving skills through simulations. The class manager disk and other supplementary materials would help teachers organize and evaluate

individual student progress. These programs do not tie up the computers and develop the idea that computers are used as tools in the thinking process. This program could be used when teaching problem solving in both math and science, but especially when working with the manipulation of variables. There sometimes is too much unnecessary text and some directions are vague.

■ **Division - Math Tutor**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: MA

Grade levels: E I

The program provides step-by-step instruction and repetition of basic arithmetic skills.

The program is a good supplement for a special education, resource or regular classroom use. Some students found the directions difficult to follow and needed teacher assistance initially. Program contains some record keeping and placement tests, but placement tests merely assign a starting level and do not provide feedback on specific competence.

■ **Draw Perfect for DOS - 1.1**

Supplier: WordPerfect Corporation

Formats: MSDOS

Demo: None

Evaluation Level: RECOM RSV

Curriculum Codes: BE

Grade levels: S

DrawPerfect includes a variety of features common to powerful paint programs such as rotate, move and scale. The graphics can easily be inserted into a *WordPerfect 5.1* document. Printing can either be done in black and white or in color with a suitable printer.

A flexible paint program which co-exists with *WordPerfect 5.1*. It is easy to prepare custom graphics and import into a word document. VGA monitor recommended. Mouse required. Drawings are very slow on a PC-XT.

■ **Easy CAD - 1.08**

Supplier: EVOLUTION COMPUTING

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: RECOMMEND

Curriculum Codes: IT UT

Grade levels: S

The program is relevant to the senior high industrial arts program especially the graphic communication,

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electricity/electronics and the construction and communication technology courses.

EasyCAD is an excellent introduction to any CAD instruction. It uses similar commands and operates in a similar fashion as more sophisticated *AutoCAD*. The program is conveniently designed and the graphics are appropriate to the topic at hand. The *EasyCAD* drawing screen features useful items such as a Menu Bar, Large Full-Screen Crossbars and a Prompt Line. Dialog Boxes are also a valuable feature of the program. An exceptional feature of the program is the dimensioning capability which is simple, fast and effective.

■ *FileGuard*

Supplier: ASD Software, Inc.

Formats: Mac

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: E I J S

FileGuard is a security system for individual hard disk drives on a Macintosh computer. It provides the capability to protect folders, documents, hard disks or applications against unauthorized access and the risk of accidental deletion. Folders can be marked as write protected permitting users to access files but not changes their contents or the arrangement of the desk top.

FileGuard provides a similar level of control to users of individual hard disk drives as has been possible on network file servers. It is an advantage in a classroom to prevent accidental erasures of essential files or confusing the arrangement of files on the desk top.

■ *Jam Session*

Supplier: Broderbund

Formats: Mac

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: MU

Grade levels: J S

This music program for the Macintosh consists of three diskettes. A hard disk drive is recommended. The program consists of two parts. *Jam Session Synthesizer* simulates a small electronic keyboard which allows users to play single note tunes and to select a variety of instruments, rhythm patterns and special effects. *Studio Session* is the music-composing component of the program which permits editing of existing songs or composing of new material.

The program is easy to use and students move through parts of the program using a mouse. The instruction booklet is well-written. An external amplifier and hard

disk drive are recommended. The program is most useful to older students, although it is appropriate for guided use by younger students (grades 5-9).

■ *King's Rule*

Supplier: Sunburst Communications

Formats: Ile C64 PC DOS T1000

Demo: C64

Evaluation Level: RECOM RSV

Curriculum Codes: MA

Grade levels: I J

Players try to discover a numeric rule in a dungeon and dragon game format. The program includes a work area in which to test their hypotheses. The package includes a thorough teacher's manual.

The game format used in this drill and practice program proves motivating for the intended audience and is effective in developing students' critical thinking skills. The ability to enter the sequence at any point, coupled with the teacher provision of setting the difficulty level, enables this program to be used at a variety of learning levels.

■ *Listen - 2.1*

Supplier: Resonate

Formats: Mac

Demo: Mac

Evaluation Level: RECOM RSV

Curriculum Codes: MU

Grade levels: I J

This program is designed to teach and drill ear training. Users can select difficulty level and can design exercises and drills at any level of difficulty and complexity.

The program is MIDI compatible and covers intervals, chord types and melodic dictations. A graphic display of the keyboard is highlighted to indicate which note is being played. Weaknesses include the lack of record keeping options and lack of option to input own melodies. It is easy to throw off the counting/scoring sequence by reacting too quickly with the cursor. Program is suited to reinforcement of previous instruction.

■ *Math Blaster*

Supplier: Davidson and Associates, Inc.

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: SE MA

Grade levels: I

This program is designed to reinforce basic math computational skills and to help increase speed and accuracy through a game-like format.

Because of timed responses, students may have difficulty achieving improved scores and may become discouraged even though they know basic computations. The game portion may provide an exciting environment in which students improve speed in responding to addition, subtraction, multiplication and division of whole numbers.

■ **MathType**

Supplier: Design Science Inc.

Formats: MAC MSDOS

Demo: MAC

Evaluation Level: RECOM RSV

Curriculum Codes: UT BE

Grade levels: S

This utility allows the user to enter and edit complex mathematical formulas.

Installed as a desktop accessory with "symbol fonts," the user simply clicks in the "apple" to activate it. Once created, the formulas can be transferred to a word processing document using "cut and paste." In a similar way, formulas can be recalled for later editing. Current word processing programs such as *WordPerfect 5.1* include utilities to edit mathematical equations.

■ **Microphone II - 4.0**

Supplier: FRANICK Computer Products Inc.

Formats: Mac

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: S T

Microphone II is a communications program for the Macintosh which emulates common terminal configurations.

This easy-to-use communications program uses a combination of a mouse and pull-down menus. It is easy to set terminal configurations. Automatic log-on scripts can be created by having the program memorize commands typed by the user and responses from the host computer. Includes an option to upload and download foreign language characters which can easily be customized with the use of the character sets modify features.

■ **Microsoft Excel**

Supplier: Microsoft Canada Inc.

Formats: Mac

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: UT BE

Grade levels: S

Microsoft Excel contains a complete sample spreadsheet with business graphics and databases. It can be used as an electronic spreadsheet and a database manager.

Excel is an excellent spreadsheet, but an inferior database manager. Formulas are easily constructed using pull-down menus and a variety of graphs (pie, line, bar) can be displayed on the screen, printed or saved to disk.

■ **Microsoft Word - 5.0**

Supplier: Microsoft Canada Inc.

Formats: Mac

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: S

This word processing program uses a combination of a mouse and pull-down menus to present a user-friendly working environment. Users can define their own styles or formats and preview text before printing. Fonts and other text formatting commands can be added to the pull-down menus.

Word is a powerful word processing program for the Macintosh which can import text and graphics, present text in snaking columns or side-by-side tables and includes a screen preview feature. Text is displayed in a "WYSIWYG" format. The package includes a spell checker and thesaurus. Most program commands can be accessed using the mouse or command keys.

■ **Microsoft Works for Windows - 2.0**

Supplier: Microsoft Canada Inc.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: J S T

This is a windows compatible version of the Microsoft Works: an integrated word processor, spell checker, spreadsheet, graphing, database and electronic communications program. It is controlled through menus or an optional mouse. Help is available on screen.

Works is a well-designed utility program in an integrated working environment. Text or data can be easily interchanged among the component programs, and each program can be used without exiting the system and reloading. A consistent set of keys is used to perform similar functions within each sub-program. It is appropriate for general use by a variety of students. It is available in individual packages or as a site license for use in multiple stations or through a network. MSDOS format is available in 3.5" or 5.25" disks. French version is also listed.

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■ *Mousetalk (ASCII Express)*

Supplier: Unison World Inc

Formats: Ile

Demo: Ile

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: J S T

This communications program for Apple microcomputers works with either an Apple Ile using a super serial card and external modem or an Apple IIgs using the communications port. It uses a combination of a mouse and pull-down menus.

Most functions may be accomplished using open-apple and closed-apple keys on a computer without a mouse. Up to 20 MACRO instructions can be programmed and assigned to equivalent keys on the keyboard.

■ *Multiplication - Math Tutor*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: MA

Grade levels: E I

The program provides step-by-step instruction and repetition of basic arithmetic skills.

The program is a good supplement for special education, resource or regular classroom use. Some students found the directions difficult to follow and needed teacher assistance initially. Program contains some record keeping and placement tests, but placement tests merely assign a starting level and do not provide feedback on specific competence.

■ *Muppet Slate*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: SE

Grade levels: E

This is a word and picture processor which allows young children to flip through an alphabet picture book to choose pictures that will illustrate their stories or for rebus writing. The program is used with the *Muppet Keyboard*.

This software package is suitable for early childhood and primary level. It's unique because it has a menu for choosing a border to "Fill in" a page so that the child's work would not be lost in a page, when they can only print a sentence or two. As well, the program has built-in graphics to illustrate some of their writing, or to make

a story. The print is very large and the font simple. It is in lower and upper case.

■ *Muppets on Stage*

Supplier: Sunburst Communications

Formats: Ile C64 PCDOS

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: SE

Grade levels: E

Muppets on Stage contains three different stages: Discovery - designed to have children explore the keyboard; Letters - where children are presented with lower and upper-case letters to practice on the keyboard; and Numbers - where children must correctly identify the number of pictures shown on the screen. They are presented with several levels of difficulty.

The program deals with material that many children master in preschool years (letter and number recognition, counting) It may be useful for those who require additional practice.

■ *PrintMaster*

Supplier: Unison World Inc

Formats: C64 Ile MSDOS

Demo: MSDOS

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: E I J S

This program is similar to *Print Shop* with the addition of more border styles, and options for printing calendars and memos. The package contains a simple user's manual, and clear directions are available from menus on the computer screen.

This easy-to-use program permits inexperienced computer users to generate banners, greeting cards, posters and calendars which contain a mixture of text and pictures. Pictures and font styles are contained on the program diskettes. The desired product can be previewed on the screen prior to printing on paper.

■ *Publish It! - 2.1*

Supplier: Timeworks

Formats: Ile (Enhanced)IIgs MSDOS

Demo: MSDOS IIgs

Evaluation Level: RECOMMEND

Curriculum Codes: UT IT

Grade levels: J S

This desktop publishing program has features similar to *Ready, Set, Go* or *Pagemaker*. Files can be imported from a variety of word processing programs. It supports a variety of printers including Apple IIgs serial port.

The 3.5" disk format for the Apple IIgs needs a mouse! The program can input *AppleWorks* files into predesigned blocks. *Publish It* is a comprehensive desktop publishing program that facilitates the design and layout of quality looking projects, newsletters and newspapers. The IIgs version requires a great deal of disk swapping which causes it to run slowly. Graphics and text are displayed on the screen as they will be printed (WYSIWYG). Only manual kerning is supported. The MSDOS version imports and scales drawings in GEM, IMG, PIC and PCX files.

■ *Quick Card*

Supplier: Follett Software Company

Formats: IIe MSDOS

Demo: MSDOS-5

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: T

The program allows for flexibility in printed output of library cards. This is a dedicated database program. It adheres strictly to AACR2 for punctuation and form, writes the record to disk, and allows you to print single cards or a series and/or labels. On creating a card set you may choose either Dewey or LC classification schemes. This is a useful package for a school library.

■ *Ready, Set, Go - 3.0*

Supplier: Letraset Canada Ltd.

Formats: Mac

Demo: Mac

Evaluation Level: RECOMMEND

Curriculum Codes: UT

Grade levels: S

Ready, Set, Go is a powerful desk top publishing program which offers "what you see is what you get" design and layout. It can import text and graphics and automatically links text pages. The user can design layout for facing pages. The program also includes a 60 000 word spelling checker for English and French vocabulary. This powerful program has been used to layout the elementary computer guide. It deals effectively with insertion of multipage text. The program has the ability to adjust kerning, leading and justification of type. It also flows text around graphics. Checking spelling or changing text character is limited to one text block (and linked sections) at a time. (See also *PageMaker*.)

■ *Say kNOW*

Supplier: Orange Juice Software Systems

Formats: IIe

Demo: IIe

Evaluation Level: RECOM RSV

Curriculum Codes: HL FS

Grade levels: J

The goal of *Say kNOW* is to apply knowledge regarding need fulfillment, communication styles, and self-worth to healthy decision-making.

The program is useful as a teacher support for sections of the PDR program where students examine themselves in relation to communication styles. The content and style of Part 3 could be enhanced by personalizing it. Some questions are vague and require a pat answer.

■ *School Speller - Magic Slate II*

Supplier: Sunburst Communications

Formats: IIe

Demo: IIe

Evaluation Level: RECOM RSV

Curriculum Codes: LA

Grade levels: J

The *School Speller* for *Magic Slate II* is a spell-checker and a word data collector.

It is available in separate packages to match 40-column to 80-column versions of *Magic Slate*. By loading the files, spelling can be checked without exiting *Magic Slate II*. Extra utilities are available to print out text with errors marked and word list created.

■ *Sensible Grammar*

Supplier: Sensible Software Inc.

Formats: IIe

Demo: IIe

Evaluation Level: RECOM RSV

Curriculum Codes: UT

Grade levels: S

A utility program which proofreads PRODOS word processing files to identify potential errors in grammar and word usage. The program is available in 3.5" and 5.25" disk formats. Users can customize the program diskette by adding words and phrases to check. Errors can be marked in the file to be corrected later using the word processing program. A list of errors can be printed on paper.

Like *Sensible Speller*, this program must be loaded separately from the word processing program used to create text files. This is inconvenient unless the program is available on a "surplus" computer which students can access as needed. The program highlights potential errors in punctuation, grammar and word usage. Suggestions are available to replace unsuitable phrases and words.

■ **Subtraction - Math Tutor**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: MA

Grade levels: E I

The program provides step-by-step instruction and repetition of basic arithmetic skills.

The program is a good supplement for special education, resource or regular classroom use. Some students found the directions difficult to follow and needed teacher assistance initially. Program contains some record keeping and placement tests, but placement tests merely assign a starting level and do not provide feedback on specific competence.

■ **Timeout Graph**

Supplier: Beagle Bros, Inc.

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: UT

Grade levels: J S T CC

Timeout Graph is an add-on product to *Appleworks* and can create a wide variety of business charts and professional graphs from spreadsheet and database data. Because *Timeout Graph* is integrated with *AppleWorks*, you can quickly graph spreadsheets. Once created, a graph can be printed in a variety of sizes on most dot matrix printers, directly from inside *AppleWorks*.

The graphics in the program are clear and the freedom within the program is good. It is easiest to install on a 3.5" disk version of *AppleWorks*. Using the 5.25" version requires frequent disk swapping during the graphing process. Graphing is included within current *Appleworks* (version 3.0) making this option redundant.

■ **Timeout Quickspell**

Supplier: Beagle Bros, Inc.

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: UT

Grade levels: J S

Timeout Quickspell is part of the *Timeout Appleworks* enhancement series. All the products in this series work inside of *Appleworks* and are easily selected from a single menu. *Quickspell* is a spelling checker and corrector that allows you to quickly and easily correct spelling and double-word errors in your *Appleworks* word processor documents. The words are checked

against an 80 000 word main dictionary and a custom dictionary of unlimited size. Corrections are made by selecting unknown words from a list or by correcting them as they appear in the word processor document. *AppleWorks 3.0* includes a spell checker.

■ **Touch 'n Write**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: RECOM RSV

Curriculum Codes: SE

Grade levels: E I

This is a complete 21-lesson curriculum based on the Palmer Method of manuscript handwriting. It is designed to be used with the *Touch Window* attachment for the computer.

Students who have difficulty with cursive writing may find it difficult to trace letters on the upright computer screen. Program has been used successfully with special needs children in primary to grade 2 who had poor fine motor control and lacked attending skills.

■ **Ultra Key**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile Mac MSDOS

Demo: Ile Mac MSDOS-3

Evaluation Level: RECOM RSV

Curriculum Codes: UT

Grade levels: I J S

Ultra Key teaches basic keyboarding by touch. All keys, including number keys and many commonly used symbol keys, are learned through the use of this program. To maximize learning, the program illustrates every finger action and provides audio feedback as keys are struck.

Practice includes letters, words and paragraphs. Children can use the program independently to improve keyboarding skills. Should contain more skill builder passages. Some of the included passages suggest sex stereotyping.

■ **WordPerfect For Windows - 5.1**

Supplier: WordPerfect Corporation

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: RECOMMEND

Curriculum Codes: BE UT

Grade levels: S

This is a windows compatible version of the industry standard *WordPerfect 5.1*. It features speller, a thesaurus, built-in mathematics functions and elaborate

merging features. File sizes are limited only by the capacity of the disk. Online help is available. The screen can be sized allowing the user to operate and switch among files. The graphics feature allows the importation of graphics and the creation of lines and boxes. The documentation of this program is well-organized, comprehensive and sequential.

The program is available for single work stations or a network. *WordPerfect For Windows* uses mouse or function keys to access most functions. The program can import and export a variety of files. A site license and volume discount are available. A hard disk drive and 4 Megabytes of RAM are highly recommended. This program can be purchased with 3.5" or 5.25" disks. Program requires *Windows 3.0* or later. Using *WordPerfect* print drivers, the screen looks similar to *WordPerfect 5.1* and prints quickly. Using *Windows* print drivers, the screen displays text, mathematics formulas and graphics as they will be printed, but printing and editing is slower. For each full version purchased, schools may request a license and templates for seven additional computer stations.

SECTION THREE

EVALUATIONS IN PROGRESS

■ *Advanced Genetics - Science Keyword Series*

Supplier: Focus Media Inc.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

Advanced Genetics is a series of computer-simulated experiments designed to supplement laboratory work in beginning college and advanced placement genetic courses. The program is divided into ten units, each of which adds new genetic concepts to those already covered in the preceding units. Experiments can be done with organisms in which the relationship between genotypes and phenotypes is already known or you can test yourself by solving problems that involve organisms in which the relationship is unknown.

■ *Algebra I - Part 1*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-5-3

Evaluation Level: ACCEPT 1ST

Curriculum Codes: MA

Grade levels: J S

Algebra I - Parts 1 and 2 offers the opportunity to master the basic concepts and skills of beginning algebra. The program demonstrates how to use variables, functions and various ways of solving equations and inequalities including graphing. The program introduces these concepts in stages, allowing students to develop and master the needed skills sequentially. Once students begin to solve programs on their own, they can use calc, the program's symbol manipulator and function plotter. Calc frees students from the mechanical aspects of algebra so they can concentrate more fully on algebraic concepts.

■ *Algernon*

Supplier: Sunburst Communications

Formats: Ile C64 MSDOS T1000

Demo: C64 Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: PS

Grade levels: I

This is a program for developing elementary problem solving and programming logic. Students write simple programs using LOGO-like commands which tell Algernon, a mouse, how to find the cheese.

■ *Architecture: Design Your Own Home*

Supplier: Abracadata

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: IT

Grade levels: J S

Architecture: Design Your Own Home is a flexible tool for easily creating floor plans, graphs, charts, architectural drawings, and more. Features include grid snap, defined scales, repeater tool, 2 sizes of vertical & horizontal text, pre-drawn architectural shapes, and split screening.

This program is a very user-friendly introduction to the basics of house design and architectural drafting and design.

■ *Atomic Physics - General Physics Series*

Supplier: Cross Educational Software

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

This program teaches the structure of atoms and the causes of radioactive decay.

The program is recommended for use in the grade twelve physics course as part of the section *Particle Physics*. It provides an excellent visual display of the atom along with the process of radioactive decay and can be used for remediation and as an extension of concepts discussed in the classroom.

■ *Auxiliary View Drawings - Engineering Drawing*

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: S

This program deals with construction and practice exercises for auxiliary view drawings.

The principles of auxiliary views relate to the advanced area of the drafting program; and therefore, the program is more appropriate to the senior high school level of the industrial arts program.

■ *Bank Street Story Book*

Supplier: GLC Silver Burdett

Formats: Ile C64

Demo: Ile C64

Evaluation Level: AT INDEPTH

Curriculum Codes: LA UT

Grade levels: I

The *Bank Street Storybook* is a tool for creative writing and drawing. Students are the authors, illustrators and animators of the stories they develop with the program.

■ **Basic Graphic Principles - Engineering Drawing 100**

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J S

This program introduces basic principles of drawing. The program could be used in the teaching of basic drafting concepts. It is appropriate for both the introductory and exploratory levels of the industrial arts program.

■ **Be A Writer - Magic Slate**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: LA

Grade levels: E I

Be a Writer blends traditional language arts objectives with imaginative writing exercises to introduce students to word processing. Students participate in a unique book-building venture in which they explore a wide range of composition activities and word processing functions, using the *Magic Slate* word processing package.

■ **BeagleWrite**

Supplier: Beagle Bros, Inc.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: UT

Grade levels: I J S

BeagleWrite allows students to create customized documents using different fonts, font sizes and styles. Personalized fonts can be created. It contains ruler features, such as centering, justification, and setting tabs, margins, and page breaks. Word searches can be requested on any part of a word in a document. This product is a repackaging of *Multi-Scribe*. Program includes a spell checker and drop down menus. Files can be exported in ASCII (Text) format. Screen displays text and fonts as they will be printed on paper (WYSIWYG). The program can be used with or without a mouse.

■ **Big Blue Reader 64**

Supplier: SOGWAP Software

Formats: C64

Demo: C64

Evaluation Level: ACCEPT 1st

Curriculum Codes: UT

Grade levels: S T

Big Blue Reader 64 is NOT an IBM-PC emulator, but rather it is a quick and easy-to-use file copy program designed to transfer word processing text and ASCII files between standard Commodore 64/128 and IBM-PC compatible MSDOS diskettes. The program REQUIRES either the 1571 or 1581 disk drive.

■ **Blockers & Finders**

Supplier: Sunburst Communications

Formats: Mac

Demo: Mac

Evaluation Level: ACCEPT 1st

Curriculum Codes: MA

Grade levels: I J S

Blockers & Finders is a game which encourages students to use inference as a problem solving strategy. Students are faced with a 4x4 grid on which are concealed "ilities", arrows and detours. Users select the level of difficulty from 1 to 12 obstacles. Teachers can control sound, levels of feedback and level of assistance provided as well as the speed of play.

The program is suitable for a wide age range and reinforces critical thinking, problem solving, self-confidence and the ability to deal with ambiguity. The animated format includes a motivating little "finder" creature who tests each map.

■ **Building Perspective**

Supplier: Sunburst Communications

Formats: Ile C64 MSDOS T1000

Demo: Ile C64 MSDOS-5 T1000

Evaluation Level: AT INDEPTH

Curriculum Codes: PS MA

Grade levels: J

By observing a pattern in a horizontal plane, students must visualize a three-dimensional pattern. It gives practice in visual thinking, analyzing a problem and predicting an outcome.

■ **Bumble Games**

Supplier: Learning Company, The

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: MA

Grade levels: E I

The program contains six games which introduces the use of number pairs to name positions in an array and points on a grid. Games include *Find Your Number*, *Find the Bumble*, *Butterfly Net*, *Visit from Space*, *Tic Tac Toe* and *Bumble Dot*.

The first four games are suitable for use with young children. The last two games use x,y axis and are more suited to older children.

■ CADKEY I

Supplier: Hearlily & Co.

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: S

CADKEY I is a fairly inexpensive computer-aided-drafting program which facilitates drawing in both two and three dimensions. The program utilizes a convenient menu-driven interface as well as a screen which constantly provides the status of the program's major elements.

Plotting in English and metric units is available and the program includes a user's guide which comprises a step-by-step tutorial.

■ Canada Fitness Award

Supplier: CAHPER Cdn Ass. Hea. Phys. Ed. & Recreat

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: PE

Grade levels: T

This is a special-purpose database program is designed to collect data on student achievement of Canada Fitness level.

■ Cells: Structure & Functions

Supplier: Gage Educational Publishing Company

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: J S

Students learn to identify seven organelles on a graphic of an animal cell. The function of cell structure, water movement and concentration gradients, diffusion and active transport are also explored.

After an exploratory laboratory activity and problem-solving session, the program could be used as a way of solidifying the concepts and learning content. The program emphasizes rote memory. Review questions

lack imagination and have a limited scope for helping students who do poorly.

■ CHAOS Plus

Supplier: EduTech

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC MA

Grade levels: S

CHAOS Plus is an interactive introduction to chaos, fractals and cellular automata.

This program deals with a new field in science and math.

■ Chemicals of Life I - The Structure of Matter - 1.02 - Biology Series

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: Accept 1st

Curriculum Codes: SC

Grade levels: J S

This program provides the fundamentals of chemistry. Interactive sequences, animation, and color graphics help explain parts of the Bohr Atom, energy levels, ions, and ionic and covalent bonding. Students create atoms on screen by providing information derived from the periodic table of elements.

The program is of reasonably good quality. Students can easily use the program without assistance. Questions tend to feature factual recall. Program is best suited to remedial review.

■ Chemicals of Life II-Water, Carbohydrates & Lipids - 1.02 - Biology Series

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: Accept 1st

Curriculum Codes: SC

Grade levels: J S

This program focuses on living materials (protoplasm) as a dynamic entity composed of key inorganic and organic compounds. The chemical properties of water are explored using diagrams and interactive exercises. Acids, bases, dissociation of salt and the PH scale are studied as a basis of understanding the complex chemical balance that exists in living matter.

The program is well prepared with many opportunities for student interaction. However, the program lacks the type of thought provoking or application types of questions. Questions tend to promote factual recall. The program would be suitable for remedial review.

■ **Claris Resolve**

Supplier: Claris

Formats: Mac

Demo: None

Evaluation Level: AT INDEPTH

Curriculum Codes: UT BE

Grade levels: S

This powerful spread sheet is a repackaging of *Wingz*. It has a good scripting component.

■ **Clifford's Big Book Publisher**

Supplier: Scholastic-TAB Publications Ltd.

Formats: MSDOS Ile

Demo: MSDOS-5

Evaluation Level: AT INDEPTH

Curriculum Codes: LA

Grade levels: E

This package permits young students to create motivating big books by combining art work and pictures from the computer disk with their own text. Pages can be printed in 8.5x11 size or they can be enlarged and taped together to create a "Big Book."

■ **Code Quest**

Supplier: Sunburst Communications

Formats: PC DOS T1000 Ile C64

Demo: PC DOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: MA PS

Grade levels: I

Students try to decode six different clues in order to identify the mystery object in each game. Clues are presented as scrambled letters, pictures, and whole words. Codes may be solved by substituting a letter (as in a cryptogram), by constructing letters in a maze, or determining which letters are represented by a sequence of numbers.

The program provides an exciting challenge for high, average and gifted students in grades four to six. There is no preset sequence, and students select the type of clue desired from a menu. Each problem requires extensive thinking. Limited helpful clues are available. Students can enter their own mystery when they have successfully decoded the one presented randomly to them.

■ **Collisions on an Air Track**

Supplier: Cambridge Development Laboratory, Inc.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: SC

Grade levels: S

This program would be beneficial to anyone studying conservation of momentum or energy. It simulates collisions of two objects moving on a horizontal, frictionless surface (an air track).

Good for simulated lab work or remediation on the conservation laws of momentum or for remediation. The program does try to accomplish too much; and therefore, it tends to create scenarios which may not be interesting to students.

■ **Color Keys**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: PS

Grade levels: I

This program provides practice in visual discrimination, seeking and transferring information, pattern recognition and mental manipulation of color combinations in order to produce a color pattern according to rules established by a key. There are 41 levels of difficulty. Requires a color monitor.

■ **Community Search**

Supplier: Maxwell MacMillan

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: SS

Grade levels: J S

This is an interactive program in which students take the role of the leader of an earlier civilization and must make decisions regarding searching for food, trading or building a community.

The program is of value in terms of hands-on practice in the area of ancient history study. The *Search Learning Strategy* by Tom Snyder is consistent with the approach taken by Dole Davis in his text *Civilizations in History* at the grade 10 level.

■ **Computereyes**

Supplier: Digital Vision, Inc.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: UT IT

Grade levels: J S

Software package which economically captures real-world images into the graphics displays of Apple II computers using a video camera. Application for graphic

arts, desktop publishing.

Needs monochrome video camera. Each primary color must be scanned very slowly and separately. Any camera motion will result in a blurred image.

■ *Conservation Laws*

Supplier: Cross Educational Software

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

From the *Computer Physics Series*, this program covers the following topics: Conservation of Momentum, One and Two Dimensional Collisions, Energy Conservation, Conservative Forces, Non-Conservative Forces, and Energy of a Bouncing Ball.

Tutorial sessions for review and reinforcement.

■ *Crossword Magic (Revised)*

Supplier: Mindscape, Inc.

Formats: Ile C64

Demo: Ile C64

Evaluation Level: ACCEPT 1ST

Curriculum Codes: UT LA

Grade levels: J

Crossword Magic turns the crossword puzzle into a flexible tool for teaching; easily-accessed, on-screen options make it simple to create, edit, transfer, print, and play puzzles.

This provides an easy way to create and play crossword puzzles. Puzzles can be printed on paper or solved on the computer screen.

■ *Deluxe Music Construction Set*

Supplier: Electronic Arts

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: MU

Grade levels: I J S T

This software is easy to use and produces excellent notation for use as classroom material. It would no doubt also be valuable in a program equipped with additional electronic instruments, geared toward student composition.

■ *Desert - Explore-A-Science*

Supplier: D.C. Heath and Company

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: E I

Desert is an educational program that allows you to explore the wonders of the scientific world while discovering reading, writing, and their own imagination. Good balance between concepts and student manipulation and interaction with the program. Emphasis on group work, research skills, manipulation and production.

■ *Dimension Techniques - Engineering Drawing 100*

Supplier: Hearlihy & Co.

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J S

Dimensioning in both customary and metric values are covered in this program.

Understanding the correct methods of dimensioning is a key aspect of basic drafting. This program does a good job of inculcating these important methods and techniques.

■ *Dinner Party*

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL FS

Grade levels: J S

The *Dinner Party* Simulation is a challenging exercise requiring co-operation, critical thinking and decision making.

A good exercise in a fun format. The program is useful for Family Studies/Independent Living courses.

■ *DiscoverCAD II*

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J S

DiscoverCAD is designed for any Apple Ile or IIgs with 128 K, two disk drives and the Apple mouse. It offers Macintosh-like pull-down menus.

DiscoverCAD features a variety of grid and snap options as well as user friendly linear, radical and diameter dimensioning options. A quick zoom screen permits centering of drawings instantly. Drawing in absolute and polar coordinates is also an important feature.

SECTION THREE: IN PROGRESS

■ *Discovery Lab*

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: SC

Grade levels: J

Discovery Lab is designed to introduce students to scientific processes- specifically, observations, experimental design and hypothesis testing. The package contains three separate labs of differing difficulty. Good summary of controlled and manipulated variables with detailed questions on the control of variables.

■ *Draw Plus*

Supplier: Activision Inc.

Formats: Ilgs

Demo: Ilgs

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J

Draw Plus provides the tools to create structured graphics such as charts and graphs, floor plans, architectural drawings and forms. You can also make changes very easily. 16 colors are provided at a time and you can scale pictures up and down. A range of fonts and styles are also provided.

This is a straight forward and user friendly program which can be used to produce forms, graphs, charts and perspective drawings of an elementary nature. The built in tool box provides icons for drawing precise lines, circles, squares, ellipses and polygons. It is possible to also align objects and lock them in place.

■ *Economics-What, How & For Whom?*

Supplier: Focus Media Inc.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SS

Grade levels: S

The teacher's manual provides an outline of the program user's guide, general unit plan, glossary, review and test questions. The program can be used in whole or in part with a class group or individually. Key economic concepts are developed through the use of explanations, models and graphs.

■ *Enlist Micros Workshop Unit*

Supplier: Educational Materials and Equipment Co.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: T

This workshop unit includes software, VHS videotape and 20 resource manuals. It is a minicourse for science teachers on effective classroom use of computers to enhance teaching and learning especially lab interfacing, software utilities and the use of science courseware.

Excellent in-servicing program integrated into a comprehensive and proven implementation model. Actively engages teachers and administrators in using microcomputers in their classrooms and districts.

■ *Evolution - Inquiries into Biology & Earth Science*

Supplier: Videodiscovery, Inc.

Formats: Laser Disc

Demo: Laser Disc

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

This disc studies change through time, focusing on interrelationships between biological evolution and the physical evolution of the planet. The narrative is combined with still and motion sequences. Users can navigate through the disc by entering frame numbers on a numeric key pad or scanning bar codes in the manual.

Some visual sequences make excellent use of the media (e.g. evolution of the continents.) Several sequences would be presented as well on 35 mm slides. The content is consistent with the revised grade 12 Biology.

■ *Exothermic & Endothermic Reactions - The Chemistry Disc*

Supplier: Matrix Interactive Video Systems

Formats: Laser Disc

Demo: Laser Disc

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

This disc contains a database of over 80 video clips focusing on endothermic and exothermic chemical reactions. The video clips include laboratory reactions, chemicals burning, industrial reactions, practical everyday reactions, natural reactions, dangerous laboratory procedures, and safe laboratory procedures. The disk provides good examples of procedures which are not normally available in a high school chemistry lab.

■ *Exploring Measurement, Time & Money - Level I*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: ACCEPT 1st

Curriculum Codes: MA

Grade levels: E

This package contains three computer programs. *Measure It* helps students learn to compare and measure the length of objects and to work with bar graphs that show measurement data. *Talking Clock* helps students learn to tell time, set a clock, work with the concept of before and after a given time, and relate time to events. *MoneyBoard* and *Sticker Store* helps students learn to count money, read price tags, pay for items, and make change.

This program requires a speech card but voice supplied with the program may be irritating. Learning outcomes might be better achieved using concrete materials. *Money Board* and *Sticker Store* uses only US money. Unlike most mouse driven software, users must release the mouse button after selecting an object in order to move it across the screen.

■ *Exploring Measurement, Time & Money - Level II*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: ACCEPT 1ST

Curriculum Codes: MA

Grade levels: E I

This package is divided into three programs. *Measure Up* helps students organize and interpret measurement data in a bar graph. *It's About Time* helps students read, record, and calculate time. *Making Sense of Money* helps students develop skills such as making change, producing exact amounts of money, and evaluating coin and bill collections.

This program may lockup the keyboard on an IBM compatible upon exiting. Students can use the mouse to drag the hands of the clock to determine elapsed time. Program contains a useful calculator. Time section uses only 12 hour clock. Money symbols are US only (e.g. one dollar bill and no two dollar bill.) Students may create their own problems for other students to solve.

■ *Exploring Measurement, Time & Money - Level III*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: ACCEPT 1st

Curriculum Codes: MA

Grade levels: E I

This package is divided into three programs. *Measurement Recording Tool* permits students to carry out measurement projects by providing a tool for making tables and bar graphs. *Problem Solving with Money* helps students use problem-solving strategies as they work with coins and bills. *Calcu-Table* provides students with a tool for organizing and exploring measurement data.

A CGA monitor and mouse are required. Although this software has some limitations, it can be used to provide practice and reinforcement through a problem solving approach. Students have the opportunity to create their own problems to be solved by other students. It should not replace hands on experiences with concrete materials at the elementary level. Only US money symbols are presented. Program can be used with a wide range of students.

■ *Express Publisher - 2.0*

Supplier: Power Up Software Corporation

Formats: MSDOS

Demo: IBM NETWORK

Evaluation Level: ACCEPT 1st

Curriculum Codes: BU

Grade levels: I J S

This is a page design program that lets you combine graphics and text to create professional looking documents.

■ *Foods: The Digestive System*

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL FS

Grade levels: J S

The program enables the user to define digestion, label parts of the digestive system on an illustration, list the parts of the alimentary canal, describe the physical appearance and function of each part of the digestive system, identify the digestive juices secreted by each part of the digestive system, including the enzymes these juices contain, and define the role of each enzyme in the system.

It might be used for review or an introduction to new material. There is a game to reinforce the learning.

■ *From the Beginning... Contraception*

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL FS

Grade levels: J S

The Contraception package is presented in two disks: Disk 1 - introduces methods of contraception. Disk 2 - discusses other various methods of contraception and the future of contraception.

This presents a good review of current information. There is a review quiz after each section and it would be useful for individual review, follow-up lessons, and reinforcement of ideas.

■ *From the Beginning... Menstruation*

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL

Grade levels: I J

This program's goal is to develop an understanding of the process of menstruation and related personal care. An independent learning or reinforcement program.

■ *From the Beginning...*

Reproduction & Contraception

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL FS

Grade levels: J S

This package introduces the male and female reproductive systems and facts about conception.

■ *Function Analyzer - Visualizing Algebra*

Supplier: Sunburst Communications

Formats: MSDOS

Demo: MSDOS

Evaluation Level: AT INDEPTH

Curriculum Codes: MA

Grade levels: S

This program provides students with a flexible tool to explore functions and their graphs. It also helps students explore the relationships among symbolic expressions, graphs and tables of values.

The program enables students to graph functions and explore translations, flips and stretches of the function. Very good chance to explore use of scale and family of functions. Does not include trig functions. Requires color graphics monitor.

■ *Geo Construction of Lines; Arcs - Engineering Drawing 100*

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J S

The content of this program contains types of lines and arcs, dividing a line into parts, line through a point and tangents.

The program could be very useful to aid in the teaching of basic drafting concepts as well as a friendly introduction to computers.

■ *Geo Construction Using Figures - Engineering Drawing 100*

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J

The program covers basic geometrical construction figures which is part of the junior high graphics communications course.

The content covers basic geometrical construction which is an important feature of the industrial arts introductory drafting courses.

■ *Geo World*

Supplier: Tom Snyder Productions, Inc

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SS

Grade levels: JS

GeoWorld provides a new approach to using databases in the classroom. It combines an accurate database of 15 natural resources with an engaging simulation of geological exploration. Students become researchers and geologists, searching the world for resources. Students perform a variety of geological tests and make mining decisions. Through this process students learn of the resources in our interdependent world.

This program provides students with the ability to seek out the availability of natural resources in various parts of the world. The program provides for problem solving while learning of scientific information relating to natural resources and the types of rock in which they are found. It involves searching out data, comparing information and writing reports relative to scientific or physical

geography. The software is limited in scope as it contains major areas of mineral deposits only.

■ *Geology Search*

Supplier: Maxwell MacMillan
 Formats: Ile
 Demo: Ile
 Evaluation Level: AT INDEPTH
 Curriculum Codes: SC
 Grade levels: S

This package from the *Search Series* encourages students to work in teams to search for oil in an imaginary continent.

Geology Search is a simulation in which small groups of students acting as natural resource explorers for an oil company perform various tests (density scans, core samples, or seismic blasts) on different sites in an attempt to locate oil on the continent of Newlandia. Students assimilate the resulting computer generated report and combine this with knowledge gleaned from the search book to determine if/where to drill for oil.

■ *Geometric preSupposer, Points & Lines*

Supplier: Sunburst Communications
 Formats: Ile PC DOS
 Demo: Ile
 Evaluation Level: AT INDEPTH
 Curriculum Codes: MA
 Grade levels: J S

Part of the *Geometric Supposer* series, the *preSupposer* allows the student to explore all figures on a plane. Various compass and straight edge constructions can be performed and measurements taken.

■ *Geometric Supposer, Circles*

Supplier: Sunburst Communications
 Formats: Ile PC DOS MAC
 Demo: Ile
 Evaluation Level: AT INDEPTH
 Curriculum Codes: MA
 Grade levels: S

This is a graphics program for exploring the geometry of a circle.

■ *Grab A Byte*

Supplier: National Dairy Council
 Formats: Ile
 Demo: Ile
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: NU
 Grade levels: J

A program which analyzes the nutritional content of foods.

Grab a Byte can be used to reinforce or review nutrient knowledge. Reinforcement is provided for correct answers, and corrections are provided for wrong answers.

■ *Grammatik III*

Supplier: Reference Software
 Formats: MSDOS
 Demo: MSDOS-5
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: BE UT
 Grade levels: S

Grammatik III electronically proofreads documents created with a word processor. It catches punctuation errors, questions usage, and analyses readability according to readability formulas. It can find true grammar errors, including subject-verb agreement problems, incorrect word usage, and improper pronoun usage.

Grammatik III should be installed on a hard disk. The program may help students understand and correct common errors in English language and it supports a variety of word processing formats. It is a stand-alone product, and a word processing program must be exited before checking a file with *Grammatik*. It is slow, but might be installed on one dedicated workstation where students could check their work.

■ *Graphic Expander Vol. 1*

Supplier: Springboard Software, Inc.
 Formats: C64 Ile MSDOS
 Demo: C64
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: UT
 Grade levels: J S

The *Graphic Expander* is an add-on graphics program to the *Print Shop* that allows users to dramatically increase and edit graphics for the *Print Shop* and *Newsroom*.

■ *Gravity - General Physics Series*

Supplier: Cross Educational Software
 Formats: MSDOS
 Demo: MSDOS-5
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: SC
 Grade levels: S

This program allows users to set up situations in astronomy. The mass, speed and other characteristics of objects can be changed at any time.

The program is highly flexible in providing a large number of orbital interactions with a high degree of user interactions. Simulation of orbital paths is of only medium-grade resolution.

■ **Haber-Tech**

Supplier: COMPRESS (Div. of Queue, Inc.)

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

This program gives the opportunity to explore a chemical manufacturing process and experience what it is like to be the operating manager of an industrial manufacturing plant that produces ammonia.

Facilitates the teaching of pressure, volume, rates of reactions and how ammonia is produced. Easy to use.

Graphics and language is easily used by students.

■ **Halley Project, The**

Supplier: Mindscape, Inc.

Formats: C64 C128 Amiga

Demo: C64 C128 Amiga

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: J S

This program creates a simulation of our solar system. It gives facts on gravity, atmospheric conditions, orbital motion, location of constellations, how eclipses work, Halley's Comet and its orbit, and relative size, position, and orbits of planets and moons.

Joystick or Mouse required for some versions. This package provides a realistic simulation and insights into the solar system. The student navigates the space ship and learns facts along the voyage.

■ **Halo Island, Mystery on**

Supplier: Key Porter Software

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: LA

Grade levels: I

A mystery story with a variety of routes and endings, the program is similar to adventure games which branch in response to decisions by the reader.

■ **Health Risk Appraisal**

Supplier: HRM Software

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: HL PE

Grade levels: J S

The program is a health-risk assessment and education package that can be used to profile individual general

health and offer suggestions to improve life span profile. If a printer is connected, students can obtain a paper copy of their assessment.

This package provides information at the end of the program which enables the user to set goals and objectives to improve health and lifestyle. In the senior high physical education program, this software could be used by students to develop awareness of fitness levels, use of drugs, and personal safety in regard to motor vehicle use.

■ **Heat Loss & Energy Conservation**

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: S

The program covers the common factors influencing heat loss from buildings, the difference between conduction and infiltration losses, the meaning of R Values and the influence on heat loss. The program describes how energy consumption can be reduced in a single family dwelling.

■ **Hidden Agenda**

Supplier: Springboard Software, Inc.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SS

Grade levels: S

In *Hidden Agenda* the user takes control of a nation which has just overthrown their dictator. Students will have to deal with strong characters giving advice on the action that should be carried out. The user will not be able to please everyone but must make choices.

Hidden Agenda stimulates discussions on social and military factors in a Central American context. Requires CGA monitor or better. For CGA, picture is displayed in monochrome.

■ **Home Hunter**

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL FS

Grade levels: J S

This program contains an introduction to factors to consider in choosing a home such as housing in the past, family budget, projection for the future and discusses the house versus the home.

■ *HomeWork Writer*

Supplier: Scholastic-TAB Publications Ltd.

Formats: MSDOS Ile

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: LA

Grade levels: J

HomeWork Writer is a simple menu driven program designed to help reluctant writers get ideas, organize an outline or compose a draft essay. Outlines or drafts can be imported into other word processing programs for final editing or printed from within *HomeWork Writer*. Available in 3.5" and 5.25" disks.

■ *Human Genetic Disorders*

Supplier: HRM Software

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: J S

The program explores human genetic disorders by having students infer parents' genotypes and phenotypes or obtaining pedigrees.

It gives students an opportunity to explore and review genetic disorders. Statistical probabilities of pedigree lines could be better expressed so that students could develop better inferencing and problem-solving abilities.

■ *IBM LinkWay - 2.01*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: ACCEPT 1ST

Curriculum Codes: UT

Grade levels: J S

IBM LinkWay enables teachers and students to develop multimedia presentations that combine text, color graphics, picture images, music, and freeze-frame and full-motion video. *IBM LinkWay* also includes a paint program, text editor, font editor, and demonstration folders.

Requires color display and a mouse. *LinkWay Live* is recommended for users with 4mb of memory and a 80386.

■ *Individual Training for Word Perfect*

Supplier: Individual Software Inc

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: BE

Grade levels: S

This is a computer-based tutorial which introduces *WordPerfect* using practical examples.

The learner can select any topics that she or he wishes to pursue. In this way depth is self-determined. Very readable and easy to use, the program provides actual practice with *WordPerfect*.

■ *InSight - Your Career Planning*

Supplier: Bytes of Learning

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: CE

Grade levels: J S

This program permits junior high students to explore some of the factors which influence an occupation based on "data, people, and things" as a basic classification.

It could be used by any subject teacher to demonstrate the effect of taking or dropping a school subject on career choices. The object of this database is to help students with decision making and career exploration. There are 760 occupational descriptions, including level of education, related subjects and training. Printouts can be made at the end of their search to use during a counselling session.

■ *Keep Your Balance*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1st

Curriculum Codes: MA

Grade levels: I J

This program is an exercise in balancing two equations. The program uses three levels of difficulty to teach skills of substitution, estimation, generalization, finding alternative solutions, and writing equations. In a problem solving environment, students add, subtract and substitute objects of equal values to balance a pan scale.

Available in 3.5" and 5.25" diskettes. Activities can be supported by using concrete materials.

■ *Label Land*

Supplier: WINGS for learning

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1st

Curriculum Codes: MA PS

Grade levels: E I

Label Land challenges students to identify common attributes and make inferences. Three variations are offered, one designed around pictures (visual), one expressed in words (geographical), and the other using numbers (mathematical). The student is presented with a group of items and is asked to infer one or more common attributes.

The program fosters the development of more complex thinking for a wide range of learners. The experiences include identifying common attributes, predicting, confirming and making inferences. It encourages students to keep records in an organized way. *Map Land* deals only with US states. In *Number Land*, up arrow causes a number to decrease; the down arrow causes a number to increase. Suitable for a wide range of students including those with less developed reading skills. It is not intended to replace experience with concrete materials. Could be used individually, in pairs or small groups.

■ *Learning Math with LogoWriter*

Supplier: Logo Publications

Formats: IIe MSDOS C64

Demo: IIe

Evaluation Level: ACCEPT 1st

Curriculum Codes: MA

Grade levels: E

This program is to be used with lower elementary manipulative mathematics program where learning takes place from concrete to pictorial to symbolic. It is also a gentle introduction to computers. Users must have the appropriate version of *LogoWriter* to run this program. Learners are encouraged to make and test predictions. Planning ahead using concrete materials is emphasized. This is an open ended program which supports space and shape, number (numeration and operations), measurement, estimation and problem solving.

■ *Mac-3D - 2.1*

Supplier: Challenger Software Corporation

Formats: Mac

Demo: Mac

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: S T

This program can be used to prepare two- and three-dimensional graphics for use in illustrations, presentations, architectural models, technical drawings and desktop publishing.

Although this is a very powerful program which allows for three-dimensional drawing, the various aspects of

the program work fairly slowly and take time to complete. This would make it difficult to use if it was being shared among many students. It has substantial merit for advanced students requiring a powerful program.

■ *MacGlobe - 1.0*

Supplier: PC Globe, Inc.

Formats: MAC

Demo: MAC

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SS

Grade levels: J S

MacGlobe is a versatile computerized world atlas that puts a wealth of maps and data at your fingertips. It contains an extensive database of information on 177 countries.

A quick retrieval database of world statistics, *MacGlobe* also motivates students to explore and display geographic data. Topics match social studies curriculum. However, some data is insufficient for high school study. See *PC Globe* for MSDOS version.

■ *Master Grapher & 3D Grapher*

Supplier: Addison-Wesley Publishers Ltd.

Formats: MSDOS IIe MAC

Demo: MSDOS-5

Evaluation Level: AT INDEPTH

Curriculum Codes: MA

Grade levels: S CC

This package contains powerful utilities for graphing functions, conics, polar equations, parametric equations and surfaces.

Could be used as a demonstration tool by teachers for functions and transformations. Automatically saves functions on exit. Instructions require a syntax which is difficult for students. Slow running with floppy drive. Conics are incomplete when graphed.

■ *Math Connections: Algebra I - Math Connections*

Supplier: WINGS for learning

Formats: Mac

Demo: Mac

Evaluation Level: ACCEPT 1st

Curriculum Codes: MA

Grade levels: J S

This program makes the formal methods and symbols of algebra more concrete. It provides a micro-world where the rules of algebra can be applied to build algebra networks.

Student can open a function window, a graph window and a table of values. These windows can be linked so that changes in any one affect displays or values in the

other window(s). This is an excellent medium in which to explore algebraic equations, however the program runs very slowly on a Mac Plus.

■ **Microsoft QuickBASIC**

Supplier: Microsoft Canada Inc.

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: AT INDEPTH

Curriculum Codes: CS BE

Grade levels: S T CC

Microsoft QuickBASIC is a programming environment that includes tools for writing, editing, running and debugging programs. These tools are integrated with a powerful version of the Basic programming language and an on-line help system that explains everything about both the environment and the language. As you enter each line, *QuickBASIC* checks its validity. It changes it into a form the computer can execute or specifies an error and helps you correct it.

QuickBASIC can be used as a compiler for programs written in the QBASIC language supplied with MSDOS 5.0.

■ **Multiview Drawing - Engineering Drawing 100**

Supplier: Hearlily & Co.

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J

This program deals with the basic principles of laying out orthographic multiview drawings including the very crucial aspect of how to correctly space the different views.

Understanding orthographic multiview projection is a key element of basic drafting and is a hard concept for students to grasp. This program has the potential of making that task much easier.

■ **Number Quest**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: MA

Grade levels: I

The computer selects a number on the number line, an ordered pair on a plane or an ordered triplet in space. Students use strategies to discover the selected number(s).

■ **Oh Deer**

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: J S

The program provides simulations of the population dynamics of white-tail deer. Working with controlled and uncontrolled variables. It has a science/social studies theme (ecological management).

This software is a good tool for promoting decision making and problem solving. Students research and/or select from a list of strategies for managing a deer herd. This ecological management program relies upon a Science Technology and Society (STS) curriculum format. It includes scientific analysis, technological interactions and societal influences (economics, public opinion).

■ **One World Countries Database**

Supplier: Active Learning Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SS

Grade levels: S

The package is based on a computer reference file containing demographic and geographic information about the countries of the world.

The program may be useful for comparison and problem-solving in global geography and history.

■ **Optics - General Physics Series**

Supplier: Cross Educational Software

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

This disk consists of six programs - three cover ray diagrams used in geometrical optics, the others discuss physical optics for the more advanced.

Sessions present rules for ray diagrams, lens and mirror experiment, waves, diffraction, lasers and image formation. Each session is followed by a short quiz. The software provides an excellent depiction of wave interference and, to some extent, could replace an oscilloscope.

■ **ORCA/Pascal**

Supplier: Byte Works, Inc.

Formats: IIgs

Demo: IIgs

Evaluation Level: AT INDEPTH

Curriculum Codes: CS

Grade levels: S

This package provides a structured programming environment suitable for high school students. Program execution can be watched step-by-step concurrently with the graphic output. Options permit users to watch variable changes or subroutine progress.

With a standard Apple IIgs, this program requires much disk swapping. With the standard 1 MByte of memory, programs are limited to 60 lines. The compiler is slow. The separate tutorial package is recommended to facilitate use by beginning students. Dual 3.5" floppy drives and additional memory are recommended.

■ **Parent Pit, The**

Supplier: Orange Juice Software Systems

Formats: IIe

Demo: IIe

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL FS

Grade levels: J S

The Parent Pit simulates a parenting experience utilizing a game format.

This program presents parenting situations where the user decides on the appropriate response. Whether the response is right or wrong, an explanation will be provided to show why it is or is not the correct response. Although not required, a game to increase your points is also included.

■ **PFS First Publisher - 3.0**

Supplier: PC Connection

Formats: MSDOS

Demo: MSDOS

Evaluation Level: At Indepth

Curriculum Codes: IT UT

Grade levels: J S

This software introduces students to the major elements of the desktop publishing process - design and planning, preparing text, preparing graphics, layout, adding design elements and printing publications.

It is a low-cost, user-friendly program for creating newsletters, educational materials and charts, fliers, reports, procedure sheets, brochures, and other similar documents relevant to the Graphic Communications component of the Industrial Arts Technology program.

■ **Photosynthesis & Respiration**

Supplier: Gage Educational Publishing Company

Formats: IIe

Demo: IIe

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: J

Animated graphics in this program help students learn to describe the processes of photosynthesis and respiration.

■ **Plane View**

Supplier: Sunburst Communications

Formats: IIe C64

Demo: IIe

Evaluation Level: AT INDEPTH

Curriculum Codes: MA PS

Grade levels: I J

This math program allows the student to trace a shape on the edge of a table surface and then be able to identify it.

The program may help learners become more aware of the need to examine problems from more than one point of view.

■ **Plato's Cave**

Supplier: Krell Software

Formats: IIe C64

Demo: IIe C64

Evaluation Level: AT INDEPTH

Curriculum Codes: PS

Grade levels: J S

The computer draws a square array of dots (the cave), and students discover the nature and location of objects hidden within it. Students shine a light into the cave and make deductions based on the pattern of reflection.

■ **Playing with Science - Temperature**

Supplier: Sunburst Communications

Formats: IIe

Demo: IIe

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: I J

This program consists of a detailed teachers' manual and a simple interfacing tool to be used primarily in the science program. By plugging one to three of the enclosed temperature probes into a simple connector, the computer accurately measures temperature and can generate printed graphs or data tables for up to three probes. This program will fit into the upper elementary and junior high science program. It can save and print data in units

assigned by the student.

Although three temperature probes are included with the package, the Apple IIc is only capable of reading one or two. The directions to connect and use the kit are very straight forward and students can quickly use the package to conduct scientific experiments.

■ *Portable Woodworking Equipment*

Supplier: Hearlihy & Co.

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: IT

Grade levels: S

Attractive computer graphics hold students attention while illustrating the parts of woodworking shop equipment. The text discusses safety, and operations of each machine. There are quizzes on each section and all scores are saved to disk which can be viewed later by the teacher. The machines covered are the saber saw, portable circular saw, router safety and operations, portable vibrator sander, and portable electric drill.

Portable Woodworking Equipment is a menu-driven program which uses computer graphics to describe the parts and safe operation of five major portable woodworking tools - saber saw, sander, electric drill, router and circular saw. Short quizzes are given after the introduction for each tool. The program only seems to run properly using two 5.25" disk drives.

■ *Probability Lab - 1.0*

Supplier: Minnesota Ed. Computing Consortium

Formats: IIe

Demo: IIe

Evaluation Level: AT INDEPTH

Curriculum Codes: MA PS

Grade levels: J S

Probability Lab can be used by individuals or groups to model problems and test ideas involving probability. Students may use coins, dice, cards etc... when designing the experiment. The program provides automatic success checking, setting of test numbers, success prediction, graphical step mode, auto mode, opportunity to see the expected success, recording of first 100 trials and teacher options to regulate the experiments. Teachers can control options available to students. Complexity of problems can be set by the user.

■ *Process Writer*

Supplier: Scholastic-TAB Publications Ltd.

Formats: MSDOS IIe

Demo: MSDOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: LA

Grade levels: I J

This program consists of three modules: prewriting, proofreading and publishing. Prewriting offers freewriting, brainstorming, personal journal, wild ideas and writing project bank. Users are helped to organize an essay, report, letter, or form. It contains a command driven word processing program. The revision section displays a piece of text by sentence, by first and last sentence and by topic sentence and it contains a proofreading option which identifies commonly misspelled words and homophones and transitions. It is very similar to *Writer's Helper III*.

■ *PSL - Explorer - 1.00*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: AT INDEPTH

Curriculum Codes: SC

Grade levels: J S

The *Personal Science Laboratory - Explorer* is a microcomputer-based laboratory. It allows the student to use the tools that come with the package to perform their experiments and then to use the software to analyze the data. The starter pak contains the base module to which various probes are attached. It also contains an extended temperature probe, a standard temperature probe and a motion/distance probe. Other probes and teacher and student manuals can be purchased separately. The starter kit contains sufficient instruments to support a variety of science experiments. One temperature probe has a stainless steel probe, is slightly less accurate, but is more tolerant to temperature and solutions. The other probe is more fragile, but more accurate. The program will simultaneously display two temperatures in separate windows. Data is displayed graphically and in a table. The motion probe can be used to support experiments in velocity, acceleration and periodic motion. A variety of experimental setups are supplied with the program package. Users can easily design their own experiments. Data can be saved on disk and recalled to this program or exported to an electronic spreadsheet program such as *Microsoft Works*. One limit is that only graphs of linear relationships can be smoothed.

■ *PSL - PH Probe*

Supplier: IBM Canada Ltd.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: AT INDEPTH

Curriculum Codes: SC

Grade levels: J S

The *PSL - PH Probe* is an accessory to be used with the *PSL - Explorer*. Student and teacher manuals may be purchased separately.

The pH probes are fragile and have a very limited shelf life. Newer probes are reported to be useful for two to three years regardless of the quantity of use. Probe tip should be cleaned and stored in neutral jelly to preserve its life. Measurements are consistent and accurate. Probe requires only two references for calibration. In the graphing mode, extraneous points can be easily deleted.

■ **Puzzler**

Supplier: Sunburst Communications

Formats: Ile C64 PCDOS T1000

Demo: Ile C64

Evaluation Level: ACCEPT 1ST

Curriculum Codes: LA

Grade levels: I

The *Puzzler* is a package of stories designed to encourage students to predict outcomes. It also encourages them to use context clues to discover meanings of new words. Overhead transparency masters are included in the package.

■ **Quattro Pro**

Supplier: Borland International

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: ACCEPT 1ST

Curriculum Codes: BE

Grade levels: S

This spreadsheet package offers advanced spreadsheet publishing, multi-page spreadsheet consolidation and is compatible with *Lotus 1-2-3*. *Quattro Pro* also provides integrated graphics tools.

■ **Rape Awareness and Prevention**

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL FS

Grade levels: J S

The program's goal is to formulate a thinking process that will assist the user in recognizing, avoiding and preventing potential rape situations, and to explore available options and alternative courses of action during and after an attack should one unavoidably occur.

■ **Redlights, Greenlights**

Supplier: Interactive Image Technologies Inc.

Formats: Ilgs

Demo: Ilgs

Evaluation Level: ACCEPT 1ST

Curriculum Codes: HL

Grade levels: I

The goal of *Redlights, Greenlights* is to help students in grades 3 to 8 develop the attitudes, knowledge and skills necessary to cope with the problems of everyday life and get along better with others. It is based on the belief that the presence of effective social problem-solving skills can contribute to a positive, self-confident approach to life.

■ **Section View Drawings - Engineering Drawing 100**

Supplier: Heartlily & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: S

Sectional views, cutting planes, section lining, full sections, half sections, broken out sections, offset sections, revolved sections, removed sections, assembly sections and section conventions are included in this package.

Graphic presentation of drafting concepts and basic principles which are sometimes difficult to teach otherwise. No quizzes are used in this program in contrast to the others in the series, and students are expected to get the appropriate practice by utilizing the workbook.

■ **Semantic Calculator (Sem Calc)**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: MA

Grade levels: I J

This program allows the user to perform mathematical operations on number quantities and their units of measure. Units are automatically adjusted in response to the selected mathematical operation. Students can experiment with operations such as adding five apples to four oranges. The program questions the user on conversion to common units of measurement.

■ **SimEarth**

Supplier: Broderbund

Formats: MSDOS Mac

Demo: MSDOS-3 Mac
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: SS SC
 Grade levels: J S

SimEarth simulates a model of a planet. This program may be played in game or experimental format. In game mode, students try to develop, manage and preserve the planet within allotted energy budgets. In experimental mode, students are given unlimited energy to mold the planet. The student selects the type of planet, its present stage of development and then introduces new factors to see what happens. *SimEarth* is a planetary spreadsheet for this mode.

■ *Sky Travel*

Supplier: Commodore Business Machines
 Formats: C64
 Demo: none
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: SC
 Grade levels: J

This package is an accurate simulation of the relative movement of stars and planets. Users can select a viewing point on earth and a time forward or backward (roughly 2 000 years) and observe the sky overhead at that time. It includes simulations of eclipses and phenomena such as Halley's Comet.

■ *Slide Shop*

Supplier: Scholastic-TAB Publications Ltd.
 Formats: Ile
 Demo: Ile
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: UT
 Grade levels: I J

Slide Shop is a desktop presentation program designed specifically for schools. You can create self running lesson disks, titles for video tapes, printed handouts and automatically repeating video displays.

This could be used as a novel way of book reporting. Students can create computerized presentations to show their work.

■ *Solutions*

Supplier: Apple Canada Inc.
 Formats: MAC
 Demo: MAC
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: UT
 Grade levels: E I J S

This Hypercard stack contains an up-to-date collection of more than 1400 computer related resources designed to assist children and adults with disability.

■ *Spell It!*

Supplier: Davidson and Associates, Inc.
 Formats: C64
 Demo: C64

Evaluation Level: ACCEPT 1st
 Curriculum Codes: LA
 Grade levels: I J

This program helps users master spelling rules, learn to spell difficult words or just correct words you chronically misspell.

See it component provides easy to follow words and practice. *Unscramble it* is difficult. *Spell it* is a game for one or two players. Program consists of 10 spelling lists. Teachers may enter new words using a time consuming editor. May be suitable for individual spelling drill.

■ *Springboard Publisher II*

Supplier: Scholastic-TAB Publications Ltd.
 Formats: MAC
 Demo: MAC
 Evaluation Level: AT INDEPTH
 Curriculum Codes: UT
 Grade levels: J S

Springboard Publisher II is a simple desk top publishing program which permits you to create multi column documents containing text or graphics. Text can be entered directly or imported from your favorite word processing program. Graphics can also be created within this program or imported from "paint" programs.

■ *Stress and the Young Adult*

Supplier: Administration Information Ed. Aids
 Formats: Ile
 Demo: Ile
 Evaluation Level: ACCEPT 1ST
 Curriculum Codes: HL FS
 Grade levels: J S

Students interact with this program in deciding appropriate actions to take in stress-producing situations common to adolescents and young adults.

This program causes students to think about stress and what it is and how to relieve it. The remedies are simple every day answers and with this program the user becomes more aware of stress.

■ *Study Skills for Success*

Supplier: Instructivision Software
 Formats: MSDOS Ile Mac
 Demo: MSDOS
 Evaluation Level: ACCEPT 1st
 Curriculum Codes: MA
 Grade levels: S

This program provides students with a personalized

computer-tutor to build learning skills that will stay with them the rest of their lives. Units include creating an effective study environment, remembering names and faces, taking notes, improving vocabulary, retrieving information, interpreting data, improving reading skills and improving mathematical reasoning.

■ **Success with Writing**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: LA

Grade levels: J

Success with Writing helps students with all phases of writing from generating ideas and outlines to writing and editing a final draft. It is broken down into four modules: 1) Generate ideas; 2) Organize ideas into an outline; 3) Compose your work through typing and editing; 4) Review and revise.

This is a flexible writing tool. Many options are provided and students are encouraged to select the ones which best suit their writing styles.

■ **Super Story Tree**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: LA UT

Grade levels: I

Super Story Tree is a program for writing and reading interactive stories, reports and presentations. It allows choices which affect the way the story unfolds. Stories can include text, sound effects, music, graphics or your own designs. It has features such as screen wipes, dissolves, flicker, etc.

Super Story Tree allows students to create or read interactive stories that contains graphics, sounds and special effects. It provides for open-ended opportunities.

■ **SuperPrint II**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: UT

Grade levels: E I J

SuperPrint II is an easy to use graphics printing program for making posters, signs, calendars, cards, borders, and banners. You can design great looking fliers, bulletin board displays, greeting cards, invitations, holiday

decorations, stage scenery, class projects and much more.

■ **Survival Math**

Supplier: Sunburst Communications

Formats: Ile C64

Demo: C64

Evaluation Level: ACCEPT 1ST

Curriculum Codes: MA

Grade levels: IJ

Four simulations help students apply math skills to everyday life. In *Travel Agent Contest*, students plan a budget for a trip. *Smart Shopper Marathon*, has students making price comparisons using such aids as unit pricing and percent discounts. Using *Hot Dog Stand*, students operate the stand at school football games, making inventory and price decisions based on many variables. In *Foreman's Assistant*, students build a playroom with a given time frame and budget.

■ **Talking Text Writer**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: UT SE

Grade levels: E I

A word processing program which can be used with an Echo II speech synthesizer to read back letters, words, sentences or a whole story.

■ **Touchwindow**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: SE

Grade levels: E I J

This is a removable clear screen which attaches to the joystick port of a computer. The screen can be placed over a conventional monitor to simulate a touch screen or used as a flat drawing tablet when used with software which is compatible.

The *Touch Window* is unstable when attached to a computer monitor with a curved surface. The screen is attached to the computer monitor with velcro tabs which are supplied with the unit. It must be held rigidly in place to register properly with software. It will work satisfactorily if left attached to a single monitor.

■ Toxicology - Biosolve 3.0

Supplier: D.C. Heath and Company

Formats: I/e

Demo: I/e

Evaluation Level: AT INDEPTH

Curriculum Codes: HL SC

Grade levels: S

Toxicology creates simulated human biology problems which students must diagnose using deductive reasoning.

This provides student interaction for problem solving situations. Conclusions and solutions must be drawn by deductive reasoning of all the clues discovered while researching the situation. *Toxicology* is user-friendly and provides two levels of complexity.

■ Tracks - Explore-A-Science

Supplier: D.C. Heath and Company

Formats: I/e

Demo: I/e

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: E I

Tracks is an educational program that allows you to explore the wonders of the scientific world while discovering reading, writing and the student's own imagination.

Tracks allows students to explore, discover and interact with animals and their tracks. Writing is a major part of the interaction in this program with many scenes presented for diary notes.

■ Tuner

Supplier: Conduit

Formats: MSDOS

Demo: None

Evaluation Level: ACCEPT 1st

Curriculum Codes: MU

Grade levels: J S

This program provides students with a unique drill for improving their sense of pitch. It begins by sounding two tones on the computer's speaker that are less than a normal half step apart. By pressing "R" for raise and "L" for lower, the student tunes the second pitch to match the first. The program then evaluates the match.

This demands an extremely discriminating ear for pitch.

■ Type to Learn

Supplier: Sunburst Communications

Formats: MSDOS T1000

Demo: MSDOS-5 T1000

Evaluation Level: AT INDEPTH

Curriculum Codes: UT

Grade levels: E I

Type to Learn teaches the keystrokes for the alphabet, numeral and punctuation keys by combining keyboard instruction with language arts education.

Students can work independently to improve their keyboarding skills. Main activity for students is copying sentences and paragraphs. The program presents few opportunities where accuracy is tested. Speed is only indicated for individual, isolated letters.

■ Volcanoes - Earth Science

Supplier: IBM Canada Ltd.

Formats: PC DOS

Demo: PC DOS-5

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SC

Grade levels: S

This package aims to teach users how to make significant observations about the environment. It explains how the environment changes over time, what has happened in the past and what may happen in the future. Students learn how to recognize linked processes in the physical world; as they do so, they develop skills in interpreting diagrams, analyzing data and predicting results.

■ Whales - Explore-A-Science

Supplier: D.C. Heath and Company

Formats: I/e

Demo: I/e

Evaluation Level: AT INDEPTH

Curriculum Codes: SC

Grade levels: E I

Whales is an educational program that allows you to explore the wonders of the scientific world while discovering reading and writing.

This is a discovery, exploration and interactive program which presents information on whales. Students must read, record, report and manipulate graphics and text elements. *Whales* provides graphics with some animation.

■ What Did You Eat Yesterday?

Supplier: Learning Seed Company

Formats: I/e

Demo: I/e

Evaluation Level: ACCEPT 1ST

Curriculum Codes: NU

Grade levels: J S

What Did You Eat Yesterday? asks users to enter everything they have eating within a 24-hour period. This daily diet will then be compared to the US RDA.

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The program checks the percentage of calories from fat in your diet and the amounts of protein and sodium.

■ *What's My Angle?*

Supplier: Davidson and Associates, Inc.

Formats: MSDOS

Demo: MSDOS-3 lab pack

Evaluation Level: ACCEPT 1ST

Curriculum Codes: MA

Grade levels: J S

This program was designed by teachers to make learning geometry interesting and rewarding.

This user friendly program contains five activities designed to develop an understanding of angle measurements, lines, vectors, and basic geometry. Student progress is recorded and different levels of difficulty are available.

■ *Whatsit Corporation*

Supplier: Sunburst Communications

Formats: Ile C64 MSDOS T1000

Demo: Ile MSDOS-5 T1000

Evaluation Level: ACCEPT 1ST

Curriculum Codes: MA SS BE

Grade levels: J

This program was designed to help students improve their math skills in a realistic simulation of starting and running the *Whatsit Corporation*.

This program accommodates 30-40 students and allows them to run a simulated small business for 6 months. Students get involved in marketing surveys, franchise purchasing, consultant work, problems, financial statements, and hiring and firing workers.

■ *Where in Time is Carmen Sandiego?*

Supplier: Broderbund

Formats: Ile IIGs Mac MSDOS C64

Demo: Ile

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SS

Grade levels: I J

Where in Time is Carmen Sandiego? offers the opportunity to become a Time Cadet. Students travel throughout the world and history collecting and analyzing clues which allows students to track down and capture various criminals.

It is an interesting enrichment activity.

■ *Windows - 3.1*

Supplier: Microsoft Canada Inc.

Formats: MSDOS

Demo: MSDOS-3

Evaluation Level: AT INDEPTH

Curriculum Codes: UT

Grade levels: S UT

Windows 3.1 provides a mouse driven graphical user interface for IBM and compatible computers. An 80386 SX or faster computer with at least 4 MBytes of memory is recommended. The program includes basic communication, paint and word processing programs. A number of desktop accessories are included such as a calculator, card file and calendar. *Windows 3.1* contains basic multimedia playback options, but does not include the tools to create multimedia effects.

■ *Wolves - Explore-A-Science*

Supplier: D.C. Heath and Company

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: SC

Grade levels: E I

Wolves allows you to explore the wonders of the scientific world while discovering reading and writing.

Wolves, a user-friendly package, motivates students through the use of animation. The program provides good support material and multiple copy potential of the student disk. Emphasis is placed on group work, research skills and manipulating and producing scenes.

■ *WordPerfect - 2.1*

Supplier: WordPerfect Corporation

Formats: IIGs

Demo: IIGs

Evaluation Level: AT INDEPTH

Curriculum Codes: UT BE

Grade levels: J S T

WordPerfect for the Apple IIGs was designed using the code from the IBM version as a guide. Commands may be selected through key commands or pull down menus which makes it more user friendly than the original IBM version.

■ *WordWriter - 1.1*

Supplier: McIntyre Computer Systems

Formats: MAC

Demo: MAC

Evaluation Level: Accept 1st

Curriculum Codes: SE

Grade levels: E I J S

WordWriter is a desk accessory which permits typing without a keyboard - letters and words are displayed in a moveable "windoid". Selections can be made with the use of a mouse, trackball, lip stick, or other input device.

Since this program runs as a desk accessory, it can be used with virtually all standard Macintosh applications: word-processors, spreadsheets, telecommunications, databases, and many more.

It is not System 7 compatible. The word predictor function encourages students to write by displaying a list of words which begin with a selected letter. As more letters are added to the selection, the displayed list of words is modified appropriately.

■ **Working Drawings - Engineering Drawing 100**

Supplier: Hearlihy & Co.

Formats: Ile

Demo: Ile

Evaluation Level: AT INDEPTH

Curriculum Codes: IT

Grade levels: J S

The construction of working drawings is covered including the importance of understanding orthographic projection, the relevance of sub-assembly drawings and the importance of title blocks.

This program completes the series and could be very useful for assisting in the teaching of introductory and exploratory drafting. It ties the whole series together and completes a series of knowledge which should provide a good understanding of general drafting practice.

■ **World GeoGraph**

Supplier: Minnesota Ed. Computing Consortium

Formats: Ilgs

Demo: Ilgs

Evaluation Level: ACCEPT 1ST

Curriculum Codes: SS

Grade levels: I J S

World GeoGraph is a geography discovery/learning tool. Its on-screen maps, graphs and databases can be used to explore 177 nations around the world as well as to better understand basic concepts of geography. The focus of this package is on human geography. *PC Globe* is a similar product for MSDOS computers.

Although the topics match the high school curriculum, data in certain categories is insufficient for high school study. It could serve as a quick reference tool for a school library. Data is displayed in both English and metric units.

SECTION FOUR

TITLES REJECTED

■ A Way (to Learn) With Waggs

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: REJECT 1st

Curriculum Codes: LA

Grade levels: E

A Way to Learn With Waggs is designed to enhance students' reading and writing skills.

Inconsistent with approaches to learning in the Nova Scotia curriculum. Questions presented to students are at a very low level of understanding. There is limited feedback to students. Authentic writing activities using available word processing software would be preferred.

■ Adaptation & Identification

Supplier: Gage Educational Publishing Company

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: I J

In *Adaptation*, graphics of various birds are used to explain how adaptations can enable populations to survive in the environment. In *Identification*, students learn to use characteristics to identify several different kinds of animals.

Students are presented with a verbal description of an ecological niche and must choose the characteristics of beak, wing and feet which correspond to that niche. The scope is far too limited; the material is vague and does not discriminate between important and unimportant characteristics. The glossary is only marginally useful.

■ Aids

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: HL FS

Grade levels: J S

The program provides factual information on the AIDS virus relevant to understanding its effects on the human body, its methods of transmission, and the avoidance of its contraction.

Uses only 1988 U.S. statistics.

■ Algebra Plus - Volume 1

Supplier: Stone & Associates

Formats: Ile MSDOS Amiga

Demo: MSDOS

Evaluation Level: REJECT 1st

Curriculum Codes: MA

Grade levels: J

This program introduces basic algebra. The program keeps a running count of correct responses & use word problems to apply what has been learned. Volume 1 covers arithmetic operations through linear equations with two variables and an introduction to polynomials. Feedback is the same regardless of whether or not a student answers correctly. Student can only enter final answers and not intermediate solutions. Computer screen is multicolored text with no graphics.

■ Algebra Plus - Volume 2

Supplier: Stone & Associates

Formats: Ile MSDOS Amiga

Demo: MSDOS

Evaluation Level: REJECT 1st

Curriculum Codes: MA

Grade levels: J S

This program allows the user to interact and get explanations of basic algebra. It keeps a running count of correct responses and uses word problems to test what has been learned. Volume 2 includes exponents, logarithms, quadratic equations and more advanced work with polynomials.

Regardless of student response, feedback is the same. Exponents are printed in the form x^3 . Word problems are reduced to displaying answers and equations.

■ Alice, the Personal Pascal

Supplier: Softsync Inc

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: REJECT 1ST

Curriculum Codes: CS

Grade levels: S

This is a tutorial package teaching programming in Pascal on an IBM (or MSDOS) computer. The interaction with the programming language is completely controlled. Because syntax errors are trapped as they occur, programming in the environment is slow.

■ Alphabet Circus

Supplier: Developmental Learning Materials

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: E

Alphabet Circus contains six different activities to acquaint a child with alphabetical order, letter recognition, keyboarding skills, text creation and

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problem solving.

The program focuses totally on letters in isolation as opposed to words in context.

■ *Ant Farm*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: PS

Grade levels: I

The program is a simulation in which a student tries to discover the work pattern of an animated ant. Students are encouraged to make predictions based on information gathered.

Students read too much and the method of interaction is inconsistent.

■ *Appleworks Integrated Applications for Micro-Computers*

Supplier: Nelson Canada Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: J

AppleWorks Integrated Applications for Micro-computers consists of two data disks of word processing files which guide you through practice sessions while you use the *Appleworks* program. The package does not contain a users guide or introduction.

There is already sufficient support materials for *Appleworks*. The program is merely a shell: the field names are in place but no data has been entered. As a result, the disks are of little use.

■ *Basic Electronic & Related Review*

Supplier: Hearlihy & Co.

Formats: Mac

Demo: MAC

Evaluation Level: REJECT 1ST

Curriculum Codes: IT

Grade levels: S

This program will help students review several basic electronic topics. It will also assist the instructor in planning & preparing class evaluation instruments. Teachers can add & change testing questions to generate a test or take a practice test. Topics include electronic circuit analysis, discrete and integrated circuits, AC & DC fundamentals, testing instruments and digital electronics.

Organization may be confusing for first time users.

There is limited interaction and no use of colour or graphics. Students study electronics directly on the computer screen. There is no interface to electronic equipment. It is not System 7.0 compatible.

■ *BIFs: Basics in Forecasting*

Supplier: Conduit

Formats: MSDOS

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: SS

Grade levels: S

Basics in Forecasting uses population and economic models.

Data is from U.S. Prefer Canadian information.

■ *BIZNES: A Simulation of a Firm*

Supplier: Conduit

Formats: MSDOS

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: BE EC

Grade levels: S

This simulation of business helps students understand the economic theory of the firm. In general, the package emphasizes three main constraints in business: the demand curve, the production function, and the supply of resources.

This is a very limited business simulation in which students can manipulate labour, capital, investment, production quantity and selling price.

■ *Camus Authoring System*

Supplier: Conduit

Formats: MS DOS

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: MU

Grade levels: J S

Teachers can use *Camus Authoring System* to write their own melodic dictation exercises to be played with *Camus: Melodic Dictations*. The program allows you to create, edit and discard exercises according to your own needs. The exercises you create with the *Camus Authoring System* will follow the standards used in *Camus: Melodic Dictations*.

This is a very limited music authoring program. It should permit working with more than one line of music at a time. Editing is tedious. If users accidentally move to a second line of music, the previous line is replaced. The program is very slow.

■ Challenge Math

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: E I

Challenge Math is a set of three computer programs designed to give students practice in basic mathematical operations.

The program is an electronic workbook. The objectives can be achieved as well with a print workbook.

■ Cleo is a Dragon!

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: REJECT 1st

Curriculum Codes: LA

Grade levels: E

Cleo is a Dragon! may help students enhance their reading and writing skills. It is suggested for remedial students trying to improve their language skills.

Inconsistent with learning processes recommended in the Language Arts guidelines.

■ CO Evolution

Supplier: EduTech

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SC

Grade levels: S

Predator/prey simulation leading to evolutionary modification and population adaptation. Students must interactively alter population characteristics.

Content and concepts are implicit and may not be clear to students. Simplistic--little more than a game.

■ Colonization

Supplier: Tom Snyder Productions, Inc

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SS

Grade levels: J S

Students use the experiences of the past to make key decisions about the colonization of space in the future. Social studies facts/skills learning outcomes are doubtful.

It is a game and, therefore, not a necessary element.

■ Construction Estimator

Supplier: Hearlihy & Co.

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: REJECT 1ST

Curriculum Codes: IT

Grade levels: S

This program is used for job cost estimations.

Program does not use metric measurements and is oriented more to a business contractor than students in construction technology.

■ Critical Issues Pack

Supplier: Tom Snyder Productions, Inc

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SS

Grade levels: S

This package combines three programs from *Decisions*, *Decisions* series. These programs are The Budget Process, Foreign Policy, and Television.

The pattern is set as with *Colonization* and *Urbanization* - the software is second to the booklet. Goals of the program are affective; content or skills is not the thrust.

■ Critical Thinking I

Supplier: COMPRIS, INC.

Formats: MSDOS

Demo: none

Evaluation Level: REJECT 1ST

Curriculum Codes: PS

Grade levels: S

This is a quiz on the nature of thinking.

The program has a quiz format with no graphics. Students read too much and most responses are not checked (random characters are accepted as a valid response). The opening screen contains confusing control characters. It is a quiz on the nature of thinking that could be better achieved in a book.

■ Daily Planet

Supplier: School Management Arts Inc

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: J S

This program consists of sixteen lessons which explore the sun, moon, and the planets. Each lesson contains exercises that interrelate with a computer software and star chart.

Does not fit with curriculum guides.

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■ *Decimals - Math Tutor*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: J

Decimals provides an introduction to basic operations with decimal numbers through instruction and practice. Disk 1 covers reading and writing decimals and mixed decimals, equivalent decimals, and addition and subtraction of decimals. Disk 2 covers decimals representing thousandths, rounding off decimals, multiplication and division of decimals, rewriting fractions as decimals and rewriting decimals as fractions.

The drill provides no concept development. If a wrong answer is given, a correct answer is automatically displayed with no chance of student intervention. The decimal points do not line up and a calculator is much better suited for this computational work.

■ *Decision Making*

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: HL FS

Grade levels: J S

Decision-Making...A Methodical Approach contains an introduction to decision-making and a decision-making simulation. The student enters a personal or hypothetical problem situation and all available options. He/she then responds to a series of methodical questions analyzing each option.

Questions are very detailed and not suitable for junior high students who may not yet have faced major decisions. The objectives of the program are more easily, quickly and better accomplished using paper and pencil.

■ *Delta Drawing*

Supplier: Spinnaker Software Corp.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: I

Delta Drawing is a computer program which enables children to create their own colorful drawings on a computer screen. It is run solely with function keys. Because *Delta Drawing* does not make use of a mouse, the ability to draw is very limited and tedious.

■ *Diary of Back River*

Supplier: Class Software

Formats: Ile C64 MSDOS

Demo: C64

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: I J

Diary of Back River is a challenging computer-based activity that focus on certain features of an arctic region near the Boothia Peninsula. These features are: climate, animal and plant life, Inuit culture, land and sea characteristics, and 19th century European arctic exploration. This activity is intended to stimulate student interest and provide information on the arctic. This program contains relevant data on Franklin's expeditions to the back country. The presentation, however, is uninteresting and the bulk of interaction is filling in missing letters from words on the screen.

■ *Discover the World - History Series*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile C64 MSDOS

Demo: MSDOS-5 Ile

Evaluation Level: REJECT 1st

Curriculum Codes: SS

Grade levels: J

Discover the World is a computer simulation which casts students in the role of world explorers in the 15th century. Students must determine what goods to take, the direction they will travel, what trading they will do, and how they will react to natives, pirates, and scurvy. Program simulates European exploration of the new world.

Program is slow and tedious and requires minimal interaction from students. Could be part of a small group activity, but could not be the only stimulus. Students will require a great deal of instruction and practice to run the program effectively.

■ *Food for Thought*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: FS

Grade levels: J

This program provides information about a wide variety of foods and their makeup. Interaction is provided but guessing is involved most of the time. USA based.

■ *Forest Management*

Supplier: Gold Disk Inc.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SC

Grade levels: J

This program examines silviculture techniques used in softwood woodlot management.

The simulation game on silviculture would be useful as a summary event at the end of a unit on forestry. This would show how silviculture techniques, if used effectively, can produce a profitable woodlot.

■ *Fractions (Part I) - Math Tutor*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: J

Fractions (Part I) provides an introduction to fractions through instruction and practice. The first disk introduces numerator and denominator, proper and improper fractions, and addition, subtraction, and multiplication of fractions. The second disk continues with mixed numbers, rewriting improper fractions and equivalent fractions.

In the placement test, the wording is confusing. The program is far too rote. The repetition of steps causes the program to be boring. This is "chalk and talk" on a computer screen.

■ *Fractions (Part II) - Math Tutor*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: J

Fractions (Part II) provides an introduction to fractions through instruction and practice. The first disk introduces least common multiple; greater common factor; and simplifying fractions. Using the second disk, students simplify fractions in order to add, subtract, multiply, and divide proper and improper fractions, and whole and mixed numbers.

In the beginning test the wording is confusing. Once into a mode, it is hard to get out. The repetition of steps causes the program to be boring.

■ *From the Beginning...Sexually Transmitted Diseases*

Supplier: Orange Juice Software Systems

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: HL FS

Grade levels: J S

The program offers an introduction to Sexually Transmitted Diseases (STD's), gives a quick quiz on STD's, and gives information on how to stop the spread of STD's.

This software deals with factual, non-judgmental treatment of sexually transmitted diseases. The information can be used individually or in small groups. It is content-based but not necessarily appropriate or relevant to students in the Personal Development and Relationships unit.

■ *Gears: Strategies in Problem Solving*

Supplier: Sunburst Communications

Formats: Ile PC DOS C64 T1000

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: PS SE

Grade levels: J

The program allows students to experiment with gear trains while learning the problem-solving skills of prediction and analysis.

■ *Generic CADD Level 1 - 1.1*

Supplier: Generic

Formats: Mac

Demo: Mac

Evaluation Level: REJECT DPT

Curriculum Codes: IT

Grade levels: S T CC

This is a computer-aided design and drafting program that will allow creation of floor plans, charts and product drawings on a personal computer.

Level 1 is a full-featured, two-dimensional design and drafting package. Many of the same conventions used in the MSDOS version of *Generic Cadd* are utilized such as the two-character command structure. Standard Macintosh "cut and paste" commands are used as well. Complex drawings take a long time to be "drawn" on the computer, screen and there is no display to indicate that users must wait. An optional Math Co-processor should be installed in the computer to speed up drawing. Text choices are very limited, and there is no choice of line width. *Generic Cadd: Student Edition* is recommended as an alternative.

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■ *Genetic Engineering*

Supplier: Helix Educational Software Inc

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SC

Grade levels: S

Tutorial program on gene cloning and its applications. Includes recombinant DNA, constructing gene libraries, cloning and diagnosis of genetic disorders through laboratory techniques which are too expensive and time consuming to do in schools.

This program consists almost entirely of reading and assimilating content. There are only three short problems.

■ *Geography Search*

Supplier: Maxwell MacMillan

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: S

Geography Search is a simulation of 16th century explorers.

The program moves too slowly and leads to frustration. The visuals are inadequate.

■ *Ghost Writer*

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: J S

This program attempts to assist writers in analyzing their own writing.

The program does not emphasize the important aspects of the writing process. It uses readability formulae and similar strategies for analyzing sentence structure. These activities do not assist students in becoming better writers.

■ *Grammar Examiner*

Supplier: Software Plus

Formats: C64 Ile MSDOS

Demo: C64 Ile MSDOS-5

Evaluation Level: REJECT 1ST

Curriculum Codes: UT LA

Grade levels: J

Grammar Examiner is a computer version of a board-game in which a student competes against the computer to test knowledge of grammar.

Student mistakes are not explained. Movements of the computer "opponent" don't follow the same patterns as the child player (computer is irrational). It does not accept British spellings (e.g., neighbor) and will not accept "I will" for "I'll." It is a better game than an instructional program.

■ *Haber: Ammonia Synthesis*

Supplier: COMPRESS (Div. of Queue, Inc.)

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: S

A computerized simulation of the synthesis of ammonia. *Haber Tech* is the preferred program for this concept.

■ *Hometown, A Local Area Study*

Supplier: Active Learning Systems

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: J

Essentially a database program in which students enter data from a survey of their hometown.

Although a worthwhile concept, students should use general purpose database software which is already available in the school.

■ *Homogeneous Equilibrium*

Supplier: COMPRESS (Div. of Queue, Inc.)

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SC

Grade levels: S

The program aims to develop an understanding of the quantitative aspects of equilibrium for students following advanced secondary level courses.

Limited application and graphical presentations - only parts of the program are suitable for student use. Graphs and data tables cannot be printed. There is not enough interaction between students and program. Effective use requires advanced coaching and understanding of concepts.

■ *How to Build a Better Mouse Trap*

Supplier: Vernier Software

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: S

Disk and manual help teachers design and build interface units for scientific experiments.

■ *Human Pump, The*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: S

Mechanical and rote approach to what should be a dynamic process.

■ *I Can Write - Magic Slate*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: LA

Grade levels: E I

A utility program used with the word processor *Magic Slate*. This software helps students organize their writing into a book format.

The book writing activities might provide a simple structure to help some young students start writing, although much of the content is not appropriate to elementary (linking verbs and adjectives).

■ *Immigration*

Supplier: Tom Snyder Productions, Inc

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SS

Grade levels: S

This program allows students to be the President of the United States and make decisions on how to handle thousands of uninvited refugees waiting to land on its shore.

The program uses the American electoral system as a key factor in the decision to encourage refugees to America and what to do with them when they arrive. The references and statistics are all American. Although the idea of decision making is good, the content is outside Nova Scotia curriculum.

■ *Improving Economic Reasoning*

Supplier: Agency for Instructional Technology

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: S

The program uses the computer to simulate a closed economic system operating on a space ship. It demonstrates interdependency of supply and demand. The student is given feedback to indicate right or wrong, but there is little discussion of the wrong answers. Errors are only corrected by completing four answers and then selecting "re-do." Only correct answers are accepted in constructing the space station. It has boring and primitive graphics.

■ *International Futures: A Global Simulation*

Supplier: Conduit

Formats: MSDOS

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: SS

Grade levels: S

This program introduces students to the key issues of global development; its data and trends, and the connections among issues and regions. Students begin the program by selecting a set of assumptions; they can make projections for over fifty different variables in the areas of population, economics, agriculture, and energy. They can also adjust variables to create their own scenarios and test alternative policies and assumptions. Presentation format is not motivating. There is too much text on the screen. It is not menu based. Data is sorted inappropriately and contains no Canadian data.

■ *Interval Drillmaster*

Supplier: Conduit

Formats: MSDOS

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: MU

Grade levels: S

This package gives students practice in identifying and notating simple melodic intervals. The software includes 22 levels of interval training and gives students the option of taking each level as either an assisted drill or timed test.

This is not suitable for a discriminating ear. Several intervals demonstrated may be incorrect. For example, a major 7th is said to be an octave and a minor 6th sounds like a perfect 5th.

■ *Jenny of the Prairie*

Supplier: Rhiannon

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

SECTION FOUR: REJECTED

Curriculum Codes: PS

Grade levels: I

This is an adventure story which sets a young girl in the role of heroine.

The program operates very slowly.

■ *Life Science, Data Bases*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: J S

This is a creative approach to studying life science. It involves students in organizing, retrieving and interpreting scientific data. The package requires *PFS File* and some parts require *PFS Report*, a program that helps you prepare reports of the data stored using "File."

It provides a tool which makes it easy and fun for students to collect and analyze data in a very short time. While the activities are worthwhile, it is restricted to one file management software package which is not generally available in schools in Nova Scotia.

■ *Living Alone*

Supplier: Administration Information Ed. Aids

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: HL FS

Grade levels: J S

This program helps students prepare for independent living. Careful consideration is given to problems of living alone or with a roommate, budgets, transportation and jobs.

The program introduces various aspects of living on your own. It might enhance and support a section on independent living for low-level learners (EMH, Grade 10). The program has little depth and insufficient alternatives in budget. Instructions are simple. This might be a supplement only to other instruction.

■ *MicroEncyclopedia - Missing Links*

Supplier: Sunburst Communications

Formats: Ile C64 PCDOS

Demo: C64

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: I J

This program is part of the *Missing Links* series. It provides a passage of text with letters missing. The children must try to determine the missing letters using context and syntax clues.

A variety of fixed formats are available for blanking out letters including every vowel, every other letter and all but the first letter. Teachers cannot modify the presentation format or text. Although the stories chosen are interesting to students, the lack of context encourages guessing to fill in the blanks.

■ *Microtools*

Supplier: Nelson Canada Ltd.

Formats: MSDOS Ile T1000

Demo: MSDOS-5

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: J S

Microtools is an integrated software package for word processing, spreadsheet and database.

Similar compatibility is readily available in integrating packages available in schools.

■ *Milliken Word Processor*

Supplier: Milliken Publishing Company

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: I J

This is an easy-to-use word processing program that has most of the features of the beginning word processors. It is easy to use, but does not add anything to existing acceptable software.

■ *Modem Manager*

Supplier: MGR Software

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: S

This is a communications program for the Apple IIs. Compared to other communication packages, *Modem Manager* is rather complex.

■ *Molecular Animator*

Supplier: COMPRESS (Div. of Queue, Inc.)

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: S

Molecular Animator allows the user to view molecular structures in three dimensions. It allows one to generate and modify structures of almost any complexity and then display them on a color monitor with high-speed

animation.

Molecular Animator is a powerful tool for generating and displaying molecular structures. Although the program is user friendly, students found the creation of new molecular structures beyond their capabilities. This program would be of better service at a post-secondary level.

■ *Motion Geometry*

Supplier: McGraw-Hill Ryerson Limited

Formats: C64

Demo: C64

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: J

This is a drill and practice program on translations (slides).

■ *MultiScribe*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: UT

Grade levels: J S

Multiscribe is a word processing program which allows the operator the options of using the keyboard or the mouse. It is a word processor which offers a variety of options much like the Macintosh.

No longer available. See *Beagle Write*.

■ *Muppet Learning Keys*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: PS SE

Grade levels: E

This is a keyboarding program for lower elementary and special education children.

The keyboard and accompanying software are a disappointment. The key press is too stiff. The arrangement of keys in alphabetical order appeals to the adult, but may be of no great value to children who are just beginning to use computers. The software *Muppets on Stage* is a trivial number and color recognition course which P-2 children are beyond. It may be appropriate as an exercise in cause and effect for some special needs children.

■ *Muppet Word Book*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA SE

Grade levels: E

This program introduces letters, words and writing for lower elementary and special education students.

Letters and words are introduced in isolation and not in a meaningful context. It fits more closely with the traditional readiness program. It also includes a simple word processor which has insufficient space for writing meaningful text.

■ *Muppetville*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: PS SE

Grade levels: E

Muppetville is a software program used for identifying and classifying shapes, colors and numbers.

Although creative in its approach, the content is neither "Canadian" nor universal. The program does have some portions which have most appropriate content, however.

■ *Music Studio - 2.0*

Supplier: Activision Inc.

Formats: Ilgs

Demo: Ilgs

Evaluation Level: REJECT DPT

Curriculum Codes: MU

Grade levels: J S

The Ilgs version of this music program features pull-down windows and complete music notation. Users can design their own instruments and effects.

The program allows a child to experiment and try out different options but has limitations of tone, volume and pitch. It takes a considerable time to master and tends to get tedious after awhile. The program requires one megabyte of memory to run successfully.

■ *Mysteries in the Making - Language Learning Series*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile MSDOS

Demo: Ile

Evaluation Level: REJECT 1st

Curriculum Codes: LA

Grade levels: E I

Mysteries in the Making may enhance students' reading and writing skills. It is designed for students with a grade 3-4 reading level who require remediation.

In the *Story Reading* component, the student reads a story on the computer screen and answers a series of

questions on the computer. Students can easily guess the correct answer through the process of elimination. In the *Story Writing* component, students use a crude built-in word processor to create their own stories. Students would be better served by using available word processing programs.

■ **Myths of Olympus/Quest for the Pole - Reading Explorers Series**

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1st

Curriculum Codes: LA

Grade levels: I J

Volume three contains information from Greek Mythology and Arctic Explorations. Both are set in an adventure format which encourages students to make decisions, identify the main idea, take notes and problem solve.

Students read a great deal of text from the computer screen. Student feedback is inappropriate: typing nonsense answers elicited similar responses as more logical answers. Teachers manual does encourage open ended problem solving.

■ **North American Database - Bank Street School Filer**

Supplier: Sunburst Communications

Formats: Ile C64

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: J

The program contains a set of data on people, climate, demographics usable only with *Bank Street Filer* database program.

Teachers are encouraged to develop relevant databases using software available in their school.

■ **Noun Puzzlers**

Supplier: Grolier Limited

Formats: Ile C64

Demo: None

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: I

Students are presented with puzzle activities involving nouns including crosswords, limericks and incomplete stories. Scores are kept on how many clues are needed to complete a puzzle.

Feedback is independent of student response (regardless of the number of errors. Students are told "all completed"). The introduction is too slow and cannot be

aborted. The program uses low-order thinking skills in a workbook-like activity.

■ **Number Munchers**

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: I

Number Munchers focuses upon several different but complementary mathematical skills. Using a game format, you direct the Number Muncher to "eat" numbers or arithmetic expressions that match a criterion or a "key value."

The student needs to use a joystick or the keys A,Z,I,J,K,M to make moves. Students tire of this program very quickly.

■ **Nutri Venture**

Supplier: Kellogg Company/Nutrition Department

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: NU FS

Grade levels: J

This program can be used as a self-awareness quiz for students in junior high home economics or health courses that deal with nutrition.

Loading time is long and directions complicated. Menu items could be placed on paper more easily. Some menu items are interesting, however.

■ **Operation Frog**

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: J S

This program is a simulation of the dissection of a frog. The program uses keyboard, joystick or mouse to move the cursor. Organs can be removed from the computer frog using simulated scissors and a probe can be placed on a body part to retrieve more information from the diskette. A second section allows students to reconstruct the frog at beginner or advanced level.

Dissections and the skills associated with this process cannot be learned nor recreated through this program. Some content and to a limited extent review might be accomplished. The program does not have enough information to accurately depict a frog.

■ *Other Side, The*

Supplier: Tom Snyder Productions, Inc

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SS

Grade levels: J S

This is a two team computer/board game concerning "Global Conflict." The game simulates the fragile balance between two nations. The game can only be won through negotiation and co-operation.

The program is not suited to school use. It is difficult to use and understand and does not reinforce any particular curriculum area.

■ *Percents, Ratios & Proportions - Math Tutor*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: I J

Disk 1 covers practice in decimal point placement, reading and writing percents, writing percents, writing percents as decimals, solving percents problems and word problems, writing decimals as percents, and writing fractions as percents. Disk 2 covers practice in writing ratios both as fractions and percents, solving ratio word problems, setting up proportions, and solving proportions word problems.

If the student does not enter the correct answer, the program simply gives more drill. The percent sign is graphically poor.

■ *Playwriter's Theatre*

Supplier: Jostens Learning Systems Inc.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: S

Program requires a relatively expensive Ufonic Voice Synthesizer (US \$245) be installed in the computer.

■ *Polynomial Practice*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: S

Polynomial Practice is designed to provide practice involving identifying and computing with polynomials. For subtraction and division, the tile representations and the development are not concrete. Questions might as well be given in drill and practice.

■ *Power - Topics in Research*

Supplier: Conduit

Formats: MSDOS

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: MA SC

Grade levels: CC S

Power is a computer simulation that relates an experiment's error variance to its power. The lesson allows students to run experiments with a number of different factors affecting error variance. By comparing these experiments, students come to see ways in which they can minimize an experiment's error variance and thus increase its power.

This is a good opportunity to see visually the effects of selected sample size. It is not interactive enough and samples are based on 1988 US census data.

■ *Pro-Grammar/Pro-Sentence*

Supplier: Nelson Canada Ltd.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: J S

A program designed to teach and reinforce basic grammar rules and sentence building.

This is merely drill and practice using isolated examples aimed at helping students learn the rules.

■ *Reader Rabbit*

Supplier: Learning Company, The

Formats: Ile IIgs

Demo: Ile IIgs

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: E

This is a program designed to teach children how to read. It is a readiness activity.

The "gs" version makes excellent use of the speech synthesizer built into the computer. However, it is basically a drill-and-practice program where students recognize and sort three-letter words by letter or by matching with a crude picture.

SECTION FOUR: REJECTED

■ *Reading and Me*

Supplier: Davidson and Associates, Inc.

Formats: IIe

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: EC LA

Grade levels: E

Reading and Me is geared for children ages 4-7. It motivates children with sound, color and animation through 12 sequentially presented learning games. A certificate is printed whenever a child completes an activity.

Reading and Me contains graphics, feedback and simplicity. However, the program is fragmented and does not offer enough for each reading ability level included.

■ *Rocky's Boots*

Supplier: Learning Company, The

Formats: IIe C64 MSDOS

Demo: IIe C64 MSDOS-5

Evaluation Level: REJECT 1ST

Curriculum Codes: PS CS

Grade levels: S

This is a program for exploring logic circuits using an animated technique. Students will analyze and build simple electronic circuits using components found in digital computers.

The technical design, through the use of color, sound and animation, makes the program more suitable for elementary students, but the content is more appropriate for upper junior high as mature reading level and attention span are required. The program presents an interesting approach to teaching logic.

■ *SEEN: Tutorials for Critical Reading*

Supplier: Conduit

Formats: IIe

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: LA

Grade levels: S

SEEN tutorials help students analyze reading assignments and bridge the gap between reading and writing. Tutorials include character analysis in literature, plotting in literature, essay analysis, exploring a literary work, art exploration and historical conflicts. Students can share their reviews through the bulletin board feature included with the package. Utilities permit teachers to administer student work, modify selected tutorials and create new tutorials.

Similar results could be obtained using available word processing software.

■ *Smoking Decision, The*

Supplier: Sunburst Communications

Formats: IIe

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: HL

Grade levels: J

An interactive format, students identify health risks associated with cigarette smoking.

This program provides very limited interaction and is USA based.

■ *Songwriter*

Supplier: Scholastic-TAB Publications Ltd.

Formats: IIe

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: MU

Grade levels: I J

Songwriter is a program which uses math and music to learn about musical scales, rhythm, structure, and the mathematics of fractional notes.

The program is inaccurate and lacks clarity. Sequence is not sufficiently developed, there is no instructional component and the method of interaction inconsistent. Positive feedback is not appropriate and the user does not have appropriate control over the program. Displays are poorly designed and sound is not used effectively. The program did not run correctly.

■ *Spreadsheets for Math & Science*

Supplier: Minnesota Ed. Computing Consortium

Formats: IIe

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: MA SC

Grade levels: J S

This spreadsheet is divided into groups by age level and covers a variety of topics ranging from the very simple to the complex. Examples include determining the value of "pi" experimentally; balancing a food chain; and exploring negative, positive, and decimal exponents. Teacher's manual includes teacher notes and student activity sheets. Requires AppleWorks.

The program is useful only for demonstration and is not practical for a class activity. Similar activities can be done better with worksheets and by building own spreadsheets.

■ *Stickybear ABC*

Supplier: Scholastic-TAB Publications Ltd.

Formats: IIe

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: E

This program tries to help the very young learn the alphabet.

The program covers too much in one sitting, incremental steps within the program are too large and there is insufficient practice. Students read too much and/or interact too little with the program. Question randomization is ineffective. A book with more examples could be just as or more effective.

■ *Stickybear Opposites*

Supplier: Xerox Education Publications

Formats: IIe C64

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: EC

Grade levels: E

This program is designed to familiarize children from ages three to six with the concept of opposites.

The program has a child select opposites using the arrow keys. It is difficult to quit once the program starts. There are better ways to accomplish these goals.

■ *Stickybear Shapes*

Supplier: Xerox Education Publications

Formats: IIe C64

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: EC

Grade levels: E

Stickybear Shapes is a shape recognition program.

The user cannot easily recognize the cursor shape or quit a game once it starts. There is no good reason to use the computer in this way.

■ *Story Tree*

Supplier: Scholastic-TAB Publications Ltd.

Formats: IIe C64

Demo: IIe C64

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: J

This program is used to generate interactive fiction.

One of the weaknesses is the great range of students it is aimed at. The degree of success in meeting one or all of the objectives will vary greatly depending on the grade level. The program is slow and tedious and will require much teacher intervention to explain the nature of an interactive story.

■ *Success with Reading*

Supplier: Scholastic-TAB Publications Ltd.

Formats: IIe C64

Demo: IIe

Evaluation Level: REJECT DPT

Curriculum Codes: LA

Grade levels: I J

Success With Reading consists of a program disk package and separate programs for levels d-e-f refer to passages of text from the "Apple Paperback" series for young readers.

Content fits in well with the "novel program" currently popular in many schools. The "cloze" activities are able to be completed easily without reading the novel. The value is that the students must pay attention to the written word in order to comprehend and complete the sentence with the correct word; emphasis is placed on spelling as words spelled incorrectly are not accepted. The novel program was well suited to the "regular" students. Students experiencing problems with comprehension or spelling may be easily discouraged. The high achievers could possibly be challenged by more words to fill in, or more difficult passages.

■ *SuperPrint*

Supplier: Scholastic-TAB Publications Ltd.

Formats: IIe

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: J

This program allows users to create and print multicolored posters, cards and banners.

The program won't allow centering from top to bottom, can't delete a phrase after the return button has been hit, and requires a lot of disk swapping.

■ *Surface of Earth, The - Language of Maps*

Supplier: Focus Media Inc.

Formats: IIe

Demo: IIe

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: J S

This program deals with mapping skills for the social studies program.

Content is marred not only by extreme American bias but also by blatant mapping inaccuracies (e.g., missing countries, islands and provinces-Japan, New Zealand, Tasmania, Newfoundland, P.E.I., etc.). Interaction is too limited and simple to be motivating or challenging.

SECTION FOUR: REJECTED

■ *Survey Sampling - Topics in Research*

Supplier: Conduit

Formats: MSDOS

Demo: None

Evaluation Level: REJECT 1st

Curriculum Codes: SC

Grade levels: CC

Survey sampling is a computer simulation that introduces students to surveys and sampling procedures. It is appropriate for undergraduate students.

■ *Suspect Sentence*

Supplier: Ginn & Co. Educational Publishers

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: I

The program is designed to sharpen student reading comprehension skills while helping them to focus on the characteristics and techniques of good writing.

The teacher's guide contains ideas which could be applied in either setting. Selections displayed on the computer screen are not interesting and seem contrived. It may help students recognize capital letters and punctuation but is unlikely to increase reading comprehension. The program runs very slowly.

■ *Teacher's Quiz Designer - 1.0*

Supplier: IBM Canada Ltd.

Formats: PCDOS

Demo: none

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: T

The program creates a multiple-choice test which can be administered on screen or on paper.

The program creates disk-based or paper multiple-choice quizzes without instructional assistance. Wrong answers are indicated and then student advances to the next question. The only teacher options are to identify question, right answer, and wrong answer. This is an inappropriate testing model.

■ *Term Paper Writer*

Supplier: Personal Choice Software

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: UT

Grade levels: J S

The program offers a section for each part of the process

of writing an essay which requires quotations, footnotes and bibliography.

Term Paper Writer has little to recommend it over a word processing program for most students. It lacks a spelling checker. It takes more time to operate than common word processing programs given familiarity with both programs, although *Term Paper Writer* does offer a sense that organizing ideas is a good plan.

■ *Terrapin Music Logo*

Supplier: Terrapin

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: UT MU

Grade levels: I

This program uses the syntax of *Terrapin Logo* to generate and play simple music.

The program requires an amplifier, speaker and game paddles to run. It may be motivational for young LOGO learners, but is not recommended for use in music classes.

■ *Those Amazing Reading Machines*

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: E I

The *MECC Reading Collection* helps students in Grades P-6 sharpen their reading skills in three main areas: sound/letter association, word analysis and reading comprehension.

The concept underlying the program is acceptable; however, there are two major weaknesses - graphics are unclear and comprehension depends on memorizing unrelated strings of information.

■ *Tobbs Learns Algebra*

Supplier: Sunburst Communications

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: I

The program uses an operation table format to manipulate a single algebraic expression.

While the program's design and content are acceptable, the technical design is inappropriate for the target age group. In advanced levels, calling for help simply supplies the correct answer. The absence of an expla-

nation detracts from an otherwise potentially valuable package.

■ *Up the Creek*

Supplier: Class Software

Formats: Ile C64 MSDOS

Demo: C64

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: I J

Up the Creek is a simulation of a canoe trip into the Canadian wilderness. The extensive use of graphics makes the program suitable to a wide range of student abilities.

Major flaws in the program include inadequate depth (facilitating only superficial learning), inaccuracies and misrepresentations, and non-current information. Students are not required to demonstrate understanding of content nor do they have the opportunity to manipulate the program content. Each new use of the program offers identical choices, with wrong choices invariably resulting in the termination of the program.

■ *Urbanization*

Supplier: Tom Snyder Productions, Inc

Formats: Ile

Demo: Ile

Evaluation Level: REJECT DPT

Curriculum Codes: SS

Grade levels: S

As mayor of a peaceful little town, students must decide how to manage their town's growth when a valuable resource is found there.

As with *Colonization*, there is little advantage in the skills area, some advantages in the content area - most of it from the student reference book, but not from the software.

■ *USA Profile*

Supplier: Active Learning Systems

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: I J S

To increase student skills in organizing and understanding many forms of data, using information collected from the United States.

Database ignores accomplishments of Blacks.

■ *Vertebrate Biology Keyword - Science Keyword Series*

Supplier: Focus Media Inc.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: S

Keyword is a method for helping students to remember key vocabulary words and concepts associated with the curriculum. Through the use of examples, definitions, and applications, students must determine the "mystery words" most closely associated with the clues.

The program is a text-based game where students are given single word clues and are required to guess the technical word. Little context is provided for each word. Letters are filled in automatically after several clues.

■ *Volcanoes - Earth Science*

Supplier: Earthware Computer Services

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC SS

Grade levels: J S

Volcanoes is a game of strategy in which students predict eruptions and warn residents in time to save their lives. The investigation follows the same format as those done on real volcanoes. This courseware is a simulation in game format.

Implementation of this program requires extensive background knowledge and interest in volcanoes as well as a great deal of classroom instruction. Ironically, the courseware itself has minimal instructional value, creates little or no interest in the study of volcanoes and fails to inspire attention. The use of fictitious names is confusing. Written instructions in the manual are prolific but difficult to follow; the content on the screen is extremely vague; the instructional technique is excessively reliant on textual displays; and the feedback is frustrating, the graphics limited and the management capabilities nonexistent.

■ *Wally's Word Works*

Supplier: Sunburst Communications

Formats: Ile C64

Demo: C64

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: I

The program is designed to drill grammar in a game format.

The emphasis of this program is to apply language study in isolation. It does not use the student's own language. This program does not fit with provincial guidelines.

SECTION FOUR: REJECTED

■ *Water Pollution*

Supplier: Educational Materials and Equipment Co.

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: J S

Water Pollution is an interactive simulation which reviews the basics of water pollution including physical properties of water, types of water pollution, fish kills, biochemical oxygen demand, dissolved oxygen levels, and water treatment and allows students to set up and run water pollution experiments.

The important concept of pollution is unsuccessfully explored in this program which falls short even of its potential. Objectives remain general throughout. Shortcoming of the presentation include contradictions and errors in the limited pool of quiz items, insufficient branching, inadequate supply of detailed information, omissions in screen displays (e.g., failure to specify degrees in temperature designations; failure to define abbreviated terminology) and restricted exit and print-out options (e.g., graphs can not be printed).

■ *Waves in a Linear Medium - Introduction*

Supplier: Merlan Scientific

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: SC

Grade levels: S

This program is designed for the instruction of wave motion.

Displays are poorly designed and graphics are not used effectively. Although not sophisticated, this is appropriate for the learner. It is difficult to slow down a wave and assign different variables.

■ *What in the World is Plate Tectonics? - Search & Solve Series*

Supplier: Scholastic-TAB Publications Ltd.

Formats: Ile MSDOS T1000

Demo: MSDOS-5

Evaluation Level: REJECT DPT

Curriculum Codes: SC SS

Grade levels: J S

The program introduces the theory of plate tectonics. Students will be asked to try to prove the theory first by collecting evidence of plate movement, and later by trying to determine if our ocean floors are actually spreading. Finally, they will compile all their evidence into a proof (or rebuttal) of the theory of plate tectonics.

The program could be used as an individual exploration, as a whole class activity, and as a series of learning stations to which each group of students is assigned for a period of time. Quizz is based on precise vocabulary. Program is largely text based and slow. Program does not utilize the capabilities of the computer to animate plate movement.

■ *Whole Brain Spelling*

Supplier: Sublogic Corp

Formats: Ile C64 MSDOS

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: E I

The goals of *Whole Brain Spelling* are to develop visual imaging skills for spelling, offer spelling practice lists, and diagnose and indicate areas for self-correction.

Words are presented out of context. Visual skill is independent of meaning. Word lists are arranged by increased spelling difficulty not vocabulary difficulty.

■ *Whole Numbers*

Supplier: McGraw-Hill Ryerson Limited

Formats: C64

Demo: C64

Evaluation Level: REJECT 1ST

Curriculum Codes: MA

Grade levels: J

This is a drill and practice program on whole numbers. The "Skill" portion of the program is rather lengthy. There is a tendency to move too quickly to shortcuts (e.g., "count the zeros...").

■ *Wordquest*

Supplier: Sunburst Communications

Formats: Ile C64

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: I J

The program consists of two games which deal with binary search. It increases students vocabulary while improving sequencing skills such as alphabetical order. It is an automated workbook. It does nothing more than ask a simple question and then sends you off to look in the encyclopedia.

■ *World Geography Canada*

Supplier: Class Software

Formats: Ile C64 MSDOS

Demo: C64

Evaluation Level: REJECT 1ST

Curriculum Codes: SS

Grade levels: J S

The program consists of five parts: Continents and Oceans, Canada and its Provinces, Canada and its Waters, Canadian Facts, and Cities and Abbreviations. Students are presented with a number of drills or quizzes in each category. For example, in "Canada and its Provinces," students study general facts about each province or territory including location, size, population, major industries, major cities and year in which it joined Confederation.

The data presented by the program is grossly inconsistent with Statistics Canada data and is assumed to be the result of a programming error. For example, the major industry for Newfoundland is shown as manufacturing while fishing is almost nonexistent. The publisher reports that updates are not available.

■ *Writing a Character Sketch*

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: J

This is an interactive program to guide students by questions and examples to characterize a person.

The program is slow with crude graphics and discusses only the external characteristics of a character. The activities could be better completed with pencil and paper.

■ *Writing a Narrative*

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: J

The program consists of three pre-writing activities - "Idea Storming," "Catch the Moments" and "Point of View."

Ideas to brainstorm are limited to simple, gross shapes. The student is asked to brainstorm about a rope or box shape by generating words to describe its sight, smell, shape and surface features, etc. Single word answers to unrelated questions (not of a student's choosing) do not assist in writing a narrative. What a narrative remains unknown. Print resources currently listed like "Bridges" are more appropriate vehicles for the teaching of narrative voice.

■ *Writing an Opinion Paper*

Supplier: Minnesota Ed. Computing Consortium

Formats: Ile

Demo: Ile

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: S

The program is designed for young adults who are learning to explore a topic, formulate an opinion and assemble, organize and examine evidence. The program includes a simple word processor.

The program contains a tutorial and drill to differentiate between fact and opinion. The activity which explores a topic uses the subject of "competency testing" which is not relevant to most students. The program requires much reading of text from the screen which might as well be presented in a student booklet.

■ *Writing Skills, Volume 3*

Supplier: Peachtree Software

Formats: Ile

Demo: None

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: J

It is awkward to correct text. The pretest is too long without feedback. If both disk drives are used, program does not load correctly. Both diskettes must be in drive 1. Student cannot advance until entire pretest is completed in one session. Disk is not updated to indicate 3/4 complete when student stops.

■ *Writing to Read*

Supplier: IBM Canada Ltd.

Formats: PC DOS

Demo: PC DOS-3

Evaluation Level: REJECT 1ST

Curriculum Codes: LA

Grade levels: E

This is a drill and practice program and an organizational structure involving reading, writing, and letter recognition.

This program runs counter to the philosophy and methodology of early childhood language development and instruction as described in the Nova Scotia Language Arts guide.

SECTION FIVE

TITLES DELISTED

■ Auto Sketch - 2.0

Supplier: Addison-Wesley Publishers LTD

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: DELISTED

Curriculum Codes: UT IT

Grade levels: J

Auto Sketch is an object-oriented CAD program which has the advantage that it records objects such as circles with a particular center and radius and objects such as lines with particular end points. *Auto Sketch*, therefore uses mathematical definitions to produce images with considerable detail in contrast to most pixel-oriented software. Other features include: the capability of drawing with a mouse using convenient pull-down menu commands, automatic dimensioning and scaling, full pan and zoom capabilities, full undo and redo features. VGA or EGA monitor needed for color display. Has been replaced by version 3.0.

■ Generic CADD - Level 3.0

Supplier: Hearlihy & Co.

Formats: MSDOS

Demo: MSDOS-5

Evaluation Level: DELISTED

Curriculum Codes: IT

Grade levels: J S

Generic CADD has all the features students need to do serious drafting, including operator definable line widths, named views and fast redraws. The level 2.0 is an excellent entry level program for the full 5.0 edition. The former could be used at either the junior or senior high levels with the latter perhaps at the senior high level.

Drawings can be completed neatly and accurately in a short amount of time; mistakes and changes are altered with ease. With exposure students become quite fluent with little frustration. Much can be learned by working with the program and the complexity of the drawings can be suited to the learner's ability. Math Co-processor is required in each computer running this program. This is also available in a starter kit which contains Level 2. Has been replaced by version 6.0.

SECTION SIX

TITLES NOT YET EVALUATED

SECTION SIX: TITLES NOT YET EVALUATED

<i>Title of Software</i>	<i>Available Formats</i>	<i>Curriculum Code</i>
3D Images	MAC	MA
A Chance Look	Ile	MA PS
A Long Hard Day on the Ranch	CD-MAC	LA
A Wrinkle in Time	Ile	LA
A.I.	Ile	PS
AC/DC Circuits	MAC	SC
Ace Reporter	Ile	LA PS
Action Writer	MSDOS	UT BE
Adventures in Astronomy	MSDOS Ile	SC
Algebra I - Part 2	MSDOS	MA
Algebra Xpresser	Mac	MA
Beauty of Fractals Lab	MAC	SC
Beyond the Beginning... Early Childhood	Ile	HL FS
Beyond the Beginning...The Infant	Ile	HL FS
Body Lab Module 3	Ile	HL PE
Bodyworks - An Adventure in Anatomy	MSDOS	SC
BrainLearn Authoring System	MSDOS	LA
Breaking the Barriers	Ile MSDOS Mac	MA SC
Breakthrough to Writing	Ile	LA
Buddy's Body	Ile	EC
Business	Ile	MA BE
Chaos - The Software	MSDOS	SC MA
Chemicals of Life III: Proteins & Nucleic Acids	MSDOS	SC
Child Development	Ile	HL FS
Cinderella - The Original Fairy Tale	CD-MAC	LA
Classroom Action Manager	MSDOS	UT
Colonial Merchant	Ile Iigs C64 MSDOS	SS
Comp-U-Solve	Ile C64	MA SC PS
Computer Assisted Writing	Ile	LA
Computer Graphing Exper #1	Ile	MA
Computer Graphing Exper #2	Ile	MA
Computer Graphing Exper #3	Ile	MA
Computer Inventory Procedures	MSDOS T1000	BE
Computers in Physics Instruction	MSDOS Mac Ile C64	SC
Coordinate Math	Ile	MA PS
Correct Grammar	MSDOS	LA
Cost of Raising a Child	Ile	FS
Crunch	Mac	UT
Cytology & Histology - Cells & Tissues	MSDOS	SC
Data Analysis	Ile	MA
Data Grabber	Ile	SC
Data Insights	Ile MSDOS	BE
Data Models	MAC	MA
Dazzle Draw	Ile	UT
Decisions, Decisions, - The Environment	Ile Mac MSDOS	SC SS
Derive	MSDOS	MA
Dr. B. Careful	Iigs	HL FS
Dr. Pascal	MSDOS	CS
Draw Perfect for Windows	MSDOS	BE UT

SECTION SIX: TITLES NOT YET EVALUATED

<i>Title of Software</i>	<i>Available Formats</i>	<i>Curriculum Code</i>
Earthquake Lab	Ile MSDOS	SC
EarthQuest	MAC	SC SS
Easy Street	Ile	LA
Ecolab, The Food Chain	MSDOS	SC
Equations, Challenge Matches	Ile	MA
Estimation: Quick Solve I	Ile	MA PS
Estimation: Quick Solve II	Ile	MA PS
Excelsior Grade 2	MSDOS	UT
Excelsior Quiz	MSDOS	UT
Feelings	Ile	EC
Filevision	Mac	UT
First Draft	Ile	LA
Food Labels	Ile	HL FS
Four Magics of Mandalay	Ile	LA
Fractal Attraction	MAC	MA
FracTint - The 3-D Fractal Generator	MSDOS	MA
Function at your Best with Linear Programming Applications	MSDOS	MA
Function Machine (Level II)	Ile	MA
Genetics	MAC	SC
Geometric Connectors: Coordinates	Ile MSDOS	MA
Geometric Connectors: Transformation	Ile MSDOS	MA
Geometry Grapher	Ile MSDOS	MA
Geometry One - Foundations	MSDOS	MA
Getting Ready to Read & Add	Ile C-64 MSDOS T-1000	MA LA
Graph Wiz	Mac	MA
GraphicWriter III	Iigs	UT
Grolier Electronic Encyclopedia	CD-IBM	UT
Heather Hits Her First Home Run	CD-MAC	LA
Hollywood	MSDOS	UT
Hydrologic Cycle	MSDOS	SC
HyperScreen	Ile	LA UT
Insights into Modelling	Ile MSDOS T1000	MA
Integers	C64	MA
International Inspirer	MAC MSDOS Ile	SS
Investigating Acceleration	MSDOS	SC
Investigating Atomic Models	MSDOS	SC
Investigating Conservation of Energy	MSDOS	SC
Keyboarding Skill Development	MSDOS	BE
KidsTime	MAC	EC
KidTalk	Mac Amiga	LA
Laboratory Simulations	Ile	SC
Landslides	MSDOS	SC
Leaf - Structure & Physiology	MSDOS	SC
Learning About Geography, Maps & Globes	C-64 MSDOS Ile	SS
Learning ACCPAC Bedford	MSDOS	BE
Lifeline Nutrition	Ile	HL FS
Madison Ave.	MSDOS	IA
Mammals - A Multimedia Encyclopedia	CD-IBM	SC
Math Concepts - Level I	MSDOS	MA

<i>Title of Software</i>	<i>Available Formats</i>	<i>Curriculum Code</i>
Math Concepts - Level II	MSDOS	MA
Math Concepts - Level III	MSDOS	MA
Math Concepts - Level IV	MSDOS	MA
Math Concepts - Level P	MSDOS	MA
Math: Solving Story Problems	Ile	MA
MathTalk	Mac	MA PS
Micro-Logic II	MSDOS	IT
Miner's Cave	Ile	SC
Modeler - Molecular Design Editor	PCDOS	SC
Monty's Musical Horn	MSDOS	MU
Moving Gives Me a Stomach Ache	CD-MAC	LA
Mud Puddle	CD-MAC	LA
Mutanoid Math Challenge, The	MSDOS	MA
My Life As A Video Game	Ile	LA
Mystery Objects	Ile	SC
Newton's Laws	Ile	SC
Night at Floener's - Word War	Ile	LA
Notes	MSDOS	LA
Number Farm	Ile	MA
One Body	MAC	SC
Orbits - Voyage Through the Solar System	MSDOS	SC
Osmosis	Ile	SC
Parenting Profile, The	Ile	HL PS
Particle Dynamics & Gravity	MSDOS	SC
Passive Transport: Diffusion & Osmosis	MSDOS	SC
PC USA 2.0	MSDOS	SS
Perimeter & Area	C64	MA
Personal Newsletter	C64 Ile	UT
Photo	Ile	UT
Physical Science, Data Base	Ile	SC
Physics: A Practical Approach	C64	SC
Planetary Construction Set	Ile	SC
Play Together/Learn Together	Ile	EC UT
Playing with Science: Motion	Ile	SC
Pollution Patrol	Ile	SS SC
Population Ecology	MAC	SC
Precalculus Plotter Plus	Ile MSDOS	MA
Primary Editor Plus	MSDOS	EC
Probability Theory	MAC	MA
Procomm Plus 2.0	MSDOS	UT
Program Writer	Ile	CS
Proteus	Ile	LA
Protutor Accounting I	MSDOS Ile Iigs	BE
PSL - Photometric Light Probe	MSDOS	SC
PSL - Radiometric Light Probe	MSDOS	SC
Radioactive Decay	Ile	SC
Ratio	C64	MA
Reaction Energetics	Ile	SC
Rock Doctor	Ile	SC

SECTION SIX: TITLES NOT YET EVALUATED

<i>Title of Software</i>	<i>Available Formats</i>	<i>Curriculum Code</i>
Sampling-Probability & Prediction	Ile	MA
Scary Poems for Rotten Kids	CD-MAC	LA
Scientific Reasoning Series	MSDOS	SC
Scuffy and Friends	Ile	LA
SoftPC	MAC	UT
Spellworks	Ile	UT
Statistics and Intuition	Ile	MA
Stella	Mac	UT
Stickybear Math Tutor	MSDOS	MA
Stickybear Reading Tutor	MSDOS	LA
Stories & More-Teaching & Learning with Computers	CD-MSDOS	EC LA
Storyboard Live!	MSDOS	LA
Story-Ware	MAC	UT
Strategy	Ile T1000	BE
Surface Water	MSDOS	SC
Teacher's Pal, The	Ile MSDOS	UT
Teaching Thinking Skills	Ile	CS
Tell Star II	MSDOS	SC
The Choice is Yours!	Ile	CE
The Paper Bag Princess	CD-MAC	LA
The Tale of Benjamin Bunny	CD-MAC	LA
The Tale of Peter Rabbit	CD-MAC	LA
The Write Stuff	C64	BE
THINK Pascal	MAC	CS
This is the Way We Wash Our Face	Ile	EC
Thomas' Snowsuit	CD-MAC	LA
Touch Typing for Beginners	MSDOS	BE
Trading Post	Ile IBM PCjr T1000	SS
Transverse Waves	Ile	SC
Turtle Symmetry (Level II)	Ile	MA
Typing Teacher	Ile C-64 MSDOS	UT
Unprintable Physics	Ile	SC
Using Appleworks in the Classroom	Ile	UT
Using BestGrapher	MAC MSDOS	MA
Wave Addition II	Ile	SC
Weather Wizards	Ile	SC
Week in the Life Of	MSDOS	HL FS
Wonderware Series	MSDOS	LA
Work and Energy	Ile	SC



I N D E X

SORTED BY CURRICULUM CODE

SORTED BY GRADE LEVEL

SORTED BY COMPUTER FORMAT

SORTED BY SOFTWARE TITLE



■ **Business Education**

ACCPAC Bedford - Industry
Standard
Action Writer
Bedford Accounting, Student
Edition
Business - Heath Math Worlds
Claris Resolve
Computer Inventory Procedures
Data Insights
Draw Perfect for DOS - 1.1
Draw Perfect for Windows - 1.0
Grammatik III
Individual Training for Word
Perfect
Keyboarding Skill Development
Learning ACCPAC Bedford
Lotus 1-2-3, High School
Edition - 2.3
Lotus 1-2-3, Standard - Industry
Standard
Lotus 1-2-3, Student Edition - 2.2
MathType
Microcomputer Keypad
Operation
Microsoft Excel
Microsoft QuickBASIC
Protutor Accounting 1 - 1.1
Quattro Pro
Strategy
The Write Stuff
Touch Typing for Beginners - 2.00
Whatsit Corporation
WordPerfect - 2.1
WordPerfect For DOS - 5.1
WordPerfect For Windows - 5.1

■ **Career Education**

InSight - Your Career Planning
The Choice is Yours!

■ **Computer Science**

dBASE IV - 1.1
Dr. Pascal - 2.05
Microsoft QuickBASIC
ORCA/Pascal
Oxford Pascal
Program Writer
Teaching Thinking Skills -
AppleWorks
THINK Pascal
TurboPascal 6.0

■ **Early Childhood**

Buddy's Body
Feelings
KidsTime
Play Together/Learn Together
Primary Editor Plus
Stories & More-Teaching &
Learning with Computers
This is the Way We Wash Our Face

■ **Industrial Arts**

816/Paint
Aldus PageMaker 4.0 - Student
Edition
Architecture: Design Your Own
Home
Auto Sketch - 2.0
Auto Sketch - 3.0
Auxiliary View Drawings -
Engineering Drawing
Basic Graphic Principles -
Engineering Drawing 100
Caddraw
CADKEY 1
Car Builder
CNC Lathe (Part I) - CNC
Machining & Program.
CNC Lathe (Part II) - CNC
Machining & Program.
Computereyes
Dimension Techniques -
Engineering Drawing 100
DiscoverCAD II
Draw Plus
Easy CAD - 1.08
Generic CADD - Level 6.0
Generic CADD - Level 3.0
Generic CADD: Student Edition
- 1.02
Geo Construction of Lines; Arcs
- Engineering Drawing 100
Geo Construction Using Figures
- Engineering Drawing 100
Heat Loss & Energy Conservation
Mac-3D - 2.1
MacDraft - 2.0
MICRO-LOGIC II
Multiview Drawing - Engineering
Drawing 100
PFS First Publisher - 3.0
Portable Woodworking Equipment
Publish It! - 2.1
Robcat

Section View Drawings -
Engineering Drawing 100
SimCity
Small Engine Repair Shop
SuperPaint - 3.0
Working Drawings - Engineering
Drawing 100

■ **Language Arts**

A Long Hard Day on the Ranch
- Discis Books
A Wrinkle in Time - A Newbury
Advent
Ace Reporter
AppleWorks GS - 2.1
Bank Street Story Book
Be A Writer - Magic Slate
BrainLearn Authoring System
Breakthrough to Writing
Cinderella - The Original Fairy
Tale - Discis Books
Clifford's Big Book Publisher
Computer Assisted Writing
Correct Grammar - 3.0
Crossword Magic (Revised)
Easy Street
First Draft
Four Magics of Mandalay
Getting Ready to Read & Add
Halo Island, Mystery on
Heather Hits Her First Home
Run - Discis Books
HomeWork Writer
HyperScreen
KidTalk
Moving Gives Me a Stomach
Ache - Discis Books
Mud Puddle - Discis Books
My Life As A Video Game
Night at Fleener's - Word War -
Reading Explorers Series
Notes
Process Writer
Proteus
Puzzler
Scary Poems for Rotten Kids -
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 Discs Books
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 Discs Books
 Wonderware Series
 Word Play
 Writer's Helper Stage II - 2.0
 Writing and Publishing Center

■ Mathematics

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 Addition - Math Tutor
 Adventures with Charts & Graph
 - Project Zoo
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 Monty's Musical Horn
 Tuner

■ Nutrition

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 What Did You Eat Yesterday?

■ **Physical Education**

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Toolkit
Canada Fitness Award
Health Risk Appraisal

■ **Problem Solving**

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Alpine Tram Ride
Building Perspective
Code Quest
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Superfactory, The

■ **Science**

AC/DC Circuits - Physics Explorer
Advanced Genetics - Science
Keyword Series
Adventures in Astronomy -
Search & Solve Series
Adventures with Charts & Graph
- Project Zoo
Atomic Physics - General
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Beauty of Fractals Lab
Biofeedback Microlab
Bodyworks - An Adventure in
Anatomy
Breaking the Barriers
Catlab
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1.02 - Biology Series
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Conservation Laws
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Tissues - 1.01 - Biology Series
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EarthQuest
Ecolab, The Food Chain
Enlist Micros Workshop Unit
Evolution - Inquiries into
Biology & Earth Science
Exothermic & Endothermic
Reactions - The Chemistry
Disc

Genetics - Physics Explorer
Geology Search
Graphical Analysis III
Gravity - General Physics Series
Haber-Tech
Halley Project, The
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Hydrologic Cycle - 1.01 - Earth
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Internal Medicine - Biosolve 1
Investigating Acceleration -
Physics Discovery Series
Investigating Atomic Models -
Physics Discovery Series
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Energy - 1.01 - Physics
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Leaf - Structure & Physiology -
1.02 - Biology Series
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Mystery Objects - Apple II series
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